Service Manual ELECTRONIC MODULAR SWITCHING SYSTEM KX-T123211

- 1. Please use this manual together with the service manual for model No. KX-T123210, order No. KM48712591C1.
- 2. This service manual indicates the main differences between; Original KX-T123210 and KX-T123211.
- 3. Technical Guide......Refer to the KX-T123210 Technical Guide.

SPECIFICATIONS\TEXHUЧЕСКИЕ XAPAKTEPИСТИКИ CONNECTION\СОЕДИНЕНИЕ

INSTALLATION\YCTAHOBKA

PROGRAMMING\ TPOTPAMMUPOBAHUE

EXTENSION BOARD CONNECTING METHOD\METOДИКА ПОДСОЕДИНЕНИЯ СЕРВИСНЫХ ПЛАТ

SCHEMATIC DIAGRAMS\ПРИНЦИПИАЛЬНЫЕ СХЕМЫ

VOLTAGE OF IC'S AND TRANSISTORS\НАПРЯЖЕНИЕ НА ИНТЕГРАЛЬНЫХ МИКРОСХЕМАХ И ТРАНЗИСТОРАХ

IC I/O DATA\ДАННЫЕ МИКРОСХЕМЫ ВВОДА/ВЫВОДА ADJUSTMENTS\РЕГУЛИРОВКИ

REPLACEMENT PARTS LIST\CTUCOK 3ATACHЫХ ЧАСТЕЙ

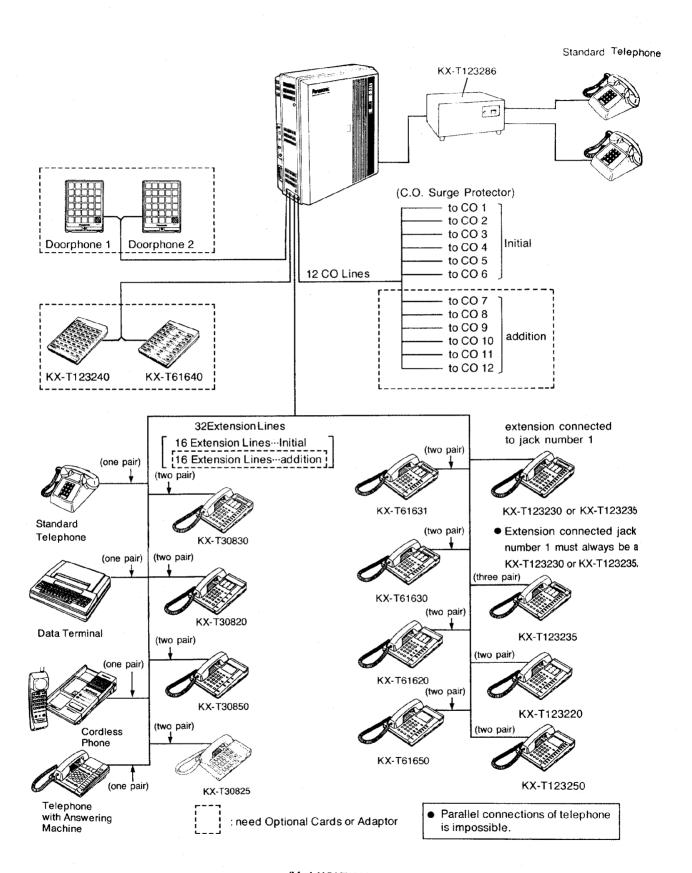
Matsushita Services Company 50 Meadowland Parkway, Secaucus, New Jersey 07094 Panasonic Hawaii Inc. 99-859 Iwaiwa Street P.O. Box 774 Honolulu, Hawaii 96808-0774

Matsushita Electric of Canada Limited 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 De Infanteria, KM 9.7 Victoria Industrial Park Carolina, Puerto Rico 00630

SPECIFICATIONS

by reco		→	Stored program CPU: 16 bits CPU Power Failure System operation for several hours by KX-A26 and recommended battery (car type batteries-consisting of two 12 VDC)
9. EXT ConnectionCable	2 pair wire3 pair wire	→	KX-T30825 (Addition) KX-T123235 (Addition)
(Characteristics) 1. Station Loop Limit: 3. Maximum Number of	· .	→	KX-T123235, KX-T30825 (Addition)
Station Instruments per Line:		→	KX-T123235, KX-T30825 (Addition)
(N	fodel KX-T123210)		(Model KX-T123211)

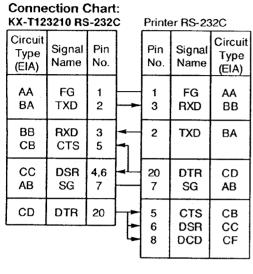
CONNECTION



(Model KX-T123211)

INSTALLATION

- 1. Model No. KX-T123210 → KX-T123211
- 2. For details of installation, refer to the Installation Manual (Part No. PQQX5668Z).
- 3. Printer Connection



Connection Chart: KX-T123211 RS-232C Printer RS-232C Circuit Circuit Signal Pin Pin Signal Type Type Name No. Name No. (EIA) (EIA) AA FG FG AA 1 BA TXD 2 3 **RXD** BB вв RXD 3 2 TXD ВА CB CTS 5 CC DSR DTR CD 6 20 AB SG 🚜 7 SG AΒ 7 CD DTR 20 **CTS** CB 5 DSR CC 6 CF Я DCD

(Model KX-T123210)

(Model KX-T123211)

PROGRAMMING

1. Model No. KX-T123210 Model No. KX-T123230

→

Model No. KX-T123211 Model No. KX-T123230 or KX-T123235

2. PROGRAMMING TABLE Page 13-17



Deletion

[For details of programming, refer to the Installation Manual (Part No. PQQX5668Z) and EIA/Remote Programming Manual (Part No. PQQX5670Z).]

(Model KX-T123210)

(Model KX-T123211)

EXTENSION BOARD CONNECTING METHOD

Extension Board (Part No. PQZZ2T123210)



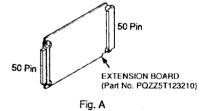
Extension Board (Part No. PQZZ1T123210)

(Model KX-T123210)

(Model KX-T123211)

OPTIONAL CARD AND EXTENSION BOARD CO	MPARISON TABLE	
OPTIONAL CARD NO.	EXTENSION BOARD PART NO.	FIG.
KX-T123285 (Off Premise Extension Card)	PQZZ5T123210	Α
KX-T123291 (Direct Inward System Access Cards)	PQZZT123291M	В
KX-T123292 (Outgoing Message Card)	PQZZT123291M	В
KX-T123295 (Diagnostic Card)	PQZZ5T123210	Α
KX-T123296 (Modem Card)	PQZZ5T123210	Α

(Model KX-T123211)



64 Pin

EXTENSION BOARD
(Part No. POZZT123291M)

Fig. B

SCHEMATIC DIAGRAM

(POWER UNIT)

IC102
Q105,Q209-Q212
D110,D111,D212,D213
PC102
VR101
RL201
C114,C115,C116,C122,C123,C235
R118-R269

Deletion

 C109 1μF (Electrolytic)
 C109 0.1μF (Polyester)

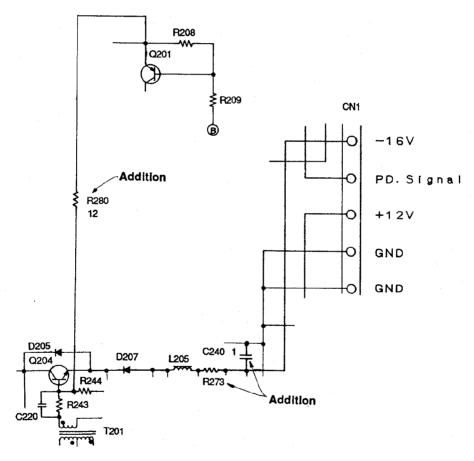
 R113 2.2kΩ
 R113 3.9kΩ

 R204 18kΩ
 R204 20kΩ

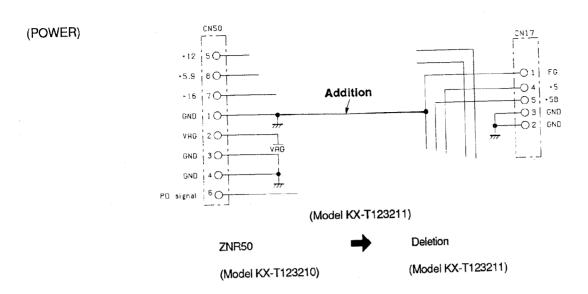
 R277 100Ω
 R277 33Ω

 R260 1.2kΩ
 R260 1kΩ

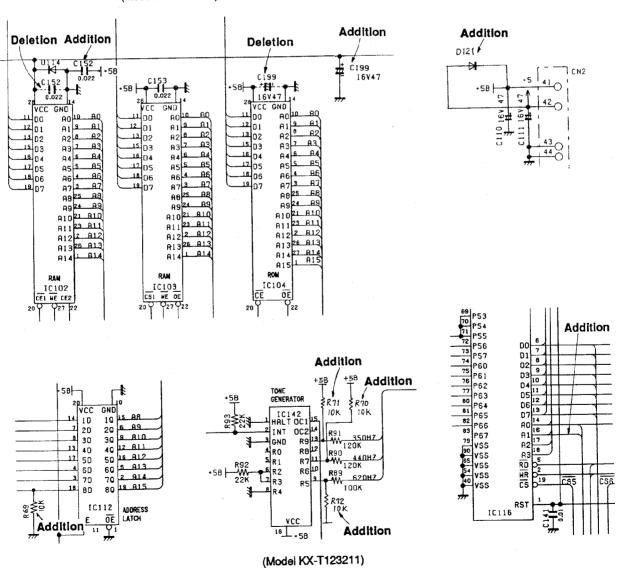
(Model KX-T123210) (Model KX-T123211)



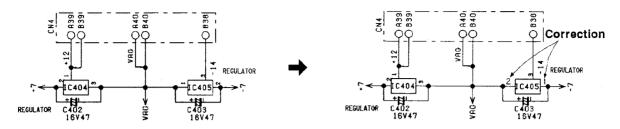
(Model KX-T123211)

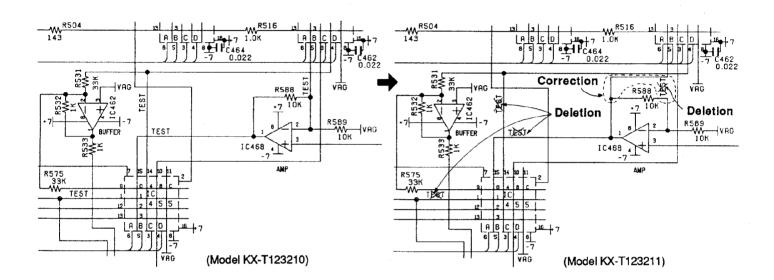


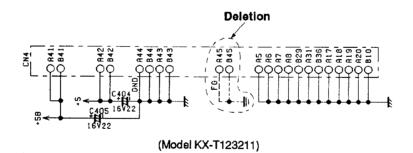
(CPU)
Q106, Q107, D101-D103, R95, R113, R114......Deletion
(Model KX-T123211)

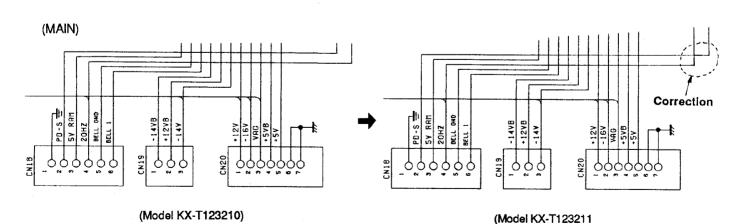


(CROSS POINT SWITCH)

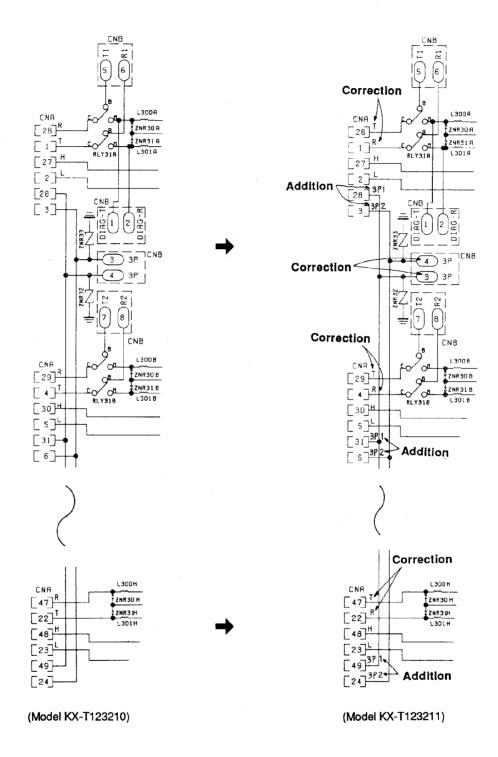


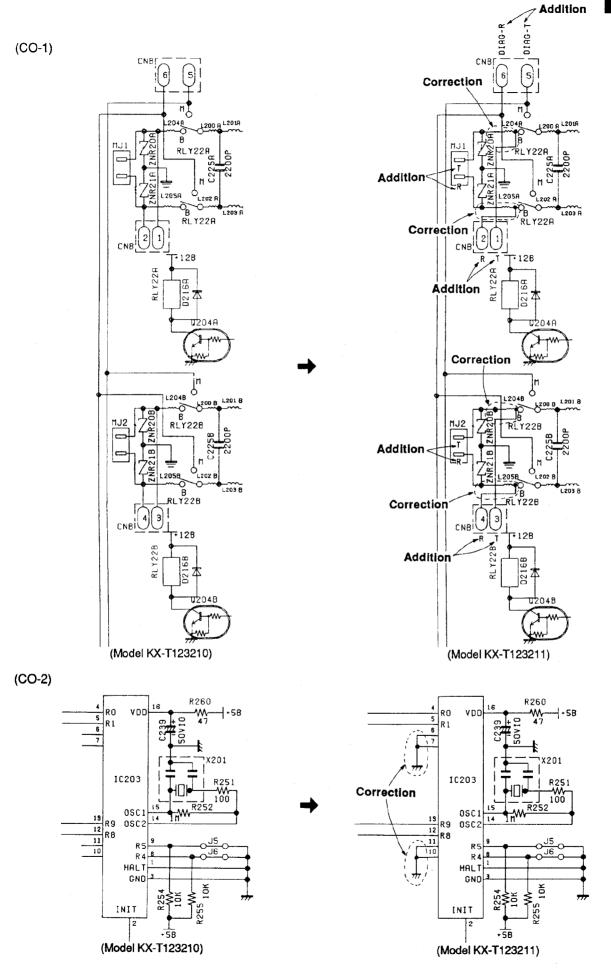


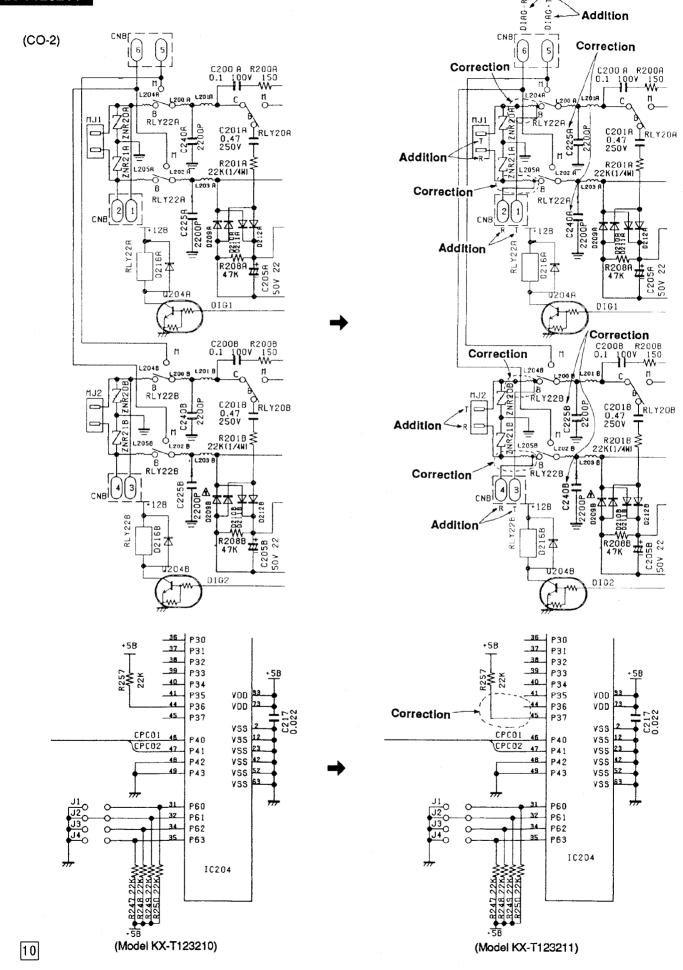




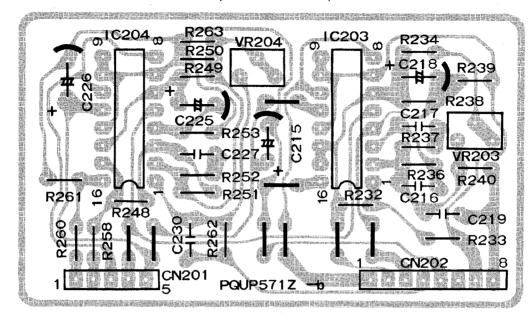
(LC1,2)







(COMPONENT VIEW)



(Model KX-T123211)

■ VOLTAGE OF ICS AND TRANSISTORS

- DC voltage measurements are taken with oscilloscope from ground line.
 Waiting condition.
- 3. Value is V.

1. POWER UNIT

(ICs)

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC202	2.4	2.4	2.4	0	MMMMI 3	4	0	******** 2	0	0		1	0	0.2	0	0
IC203	2.4	2.4	2.5	2.7	MMMMM 3	5	0	mmm 2	0	0	muu 2	1	0	5	5	0
10204	2.4	2.4	2.4	0	Marillan 3	5	0	sum 2	0	0	mmm 2	1	0	5	12	12

Pin No.	1	2	3	4	5	6	7	8
IC205	-			-20	-20	-20		5

(TRANSISTORS)

	Ε	С	В		E	С	В		E	С	В		E	С	В
Q202	1	0		Q203	0	1	0	Q207	1	0		Q208	0	1	0

2. POWER

(TRANSISTORS)

	Е	С	В		Е	С	8		E	С	В		E	С	В
Q50	0	12	0	Q51	12	-0.4	12	Q52	0	-20	-0.4	Q53	-20	-0.4	-20

3. CPU (ICs)

(ICs)								_		
Pin No.	2 3-16,25,28,29,3	2,35-39 18,	21	19	22		24]		
IC100	5	5 M 0	0	5 5		5 o	mum 5			
Pin No.	2-15, 17-21, 23,	25-29 2	22	24	1					
IC101			5	5 0						
Pin No.	1-13, 15-19, 21,	23-27	22		IC.	102, IC103	pin 27			
IC102			<u></u>	<u> </u>		7 ()	<i>5</i>	7		
IC103		-								
IC104					<u> </u>					
Pin No.	2, 8, 12	4, 5	7	10, 13	11	16	17			•
IC105			1 5	0	5	4.2	~	3		
Pin No.	1	2-9		11, 12	13,	16, 17	14, 18	19		
IC106	5 0	1000 M 5		0	"/"	0	M. M. M.	5 5		
Pin No.	1-9, 11-18	19		Pin No.	2, 10, 1	2, 15	3, 4, 9,1	1, 13, 14,		
		5				5				
IC107	1000 5 o	0		IC108		— o	2000.WM	0		
Pin No.	1-9, 11, 12, 14-18	13		19	Pin No).	2, 4	3, 5,	7, 9, 1	1, 13, 15-18
IC109	1444 5 0	WWW 6		5 0	IC11	0	5			5 0
Pin No.	2-9, 11-19	Pin No.		1-4, 9		5	6, 7, 14,	15		
IC111 IC112	₩₩ ⁵	IC113	1WW 5	V	0 -	···· 5 0	5	 5		
Pin No.	1-6 9, 10, 11, 13	14 15	Pin N	. 1	3 5 7	.11 13 1	4, 15, 17, 1	8-23		
IC114	5	5 0	IC11			www 5	., .,, .,			
Pin No.	1,20,23.24	4,30-37,46,51	,66,67.68	,82,98,99.1	00	2, 5, 19	9 6	10	7, 8	, 11
IC116		0						mm 5	ulul ul	
Pin No.	12, 13 14,1	6,17,18	22.25	.26.47-50	52,57-64	.69-77.80)-81,84-89,	91,92.97		
IC116	0	5 0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- ,,		
Pin No.	1, 2, 3	4, 5	6, 9, 10	0 7	', 11	16,20,2	1,23,25	17,18,19,2	24	22
IC117		5	"\"\"\"\		1 m m 5		5	0		5 0
Pin No.	27 Pi	n NO.	1, 4	2, 13		12	Pin NO	. 1-6		9-15
IC117	5		5 0		- 5		IC119			5 5
				<u> </u>						

Pin No.	1, 2	3, 6, 7	4, 8 9, 15	5 10, 18	13	17 19, 20	21, 22, 23
IC120	······ 5 —— 0	<u> </u>	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	5 — 5 — 0	5 0	5	
						· · · · · · · · · · · · · · · · · · ·	
Pin No.	1, 6	3 5	7, 8	9, 12, 25	10, 11, 13	14, 15, 21, 24	17,19 22
IC121	<u>" " " " 5</u> 0	5 7777	5 0	5 0	5 0	0	5
Pin No.	0 4 5 0 44 4	4 7	T 46	1			
IC122	3,4,5,9,11-1 5	5	16				
Dia Na	4.4		1 0	10		10 12	15 16 17
Pin No.	1-4	7	8	10	11	12, 13	15, 16, 17
 C125	2	\ \(\sigma_0^4 \)	1 1 1 1	5 0	mmmm 5	<u>"" " " 5</u>	0
Pin No.	1, 2, 3, 15	4-7	8, 10	12, 13	14	16	17
IC127	5	———— 5 ———— 0	s	"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\	7777 ⁵	2	₩ 4
							1
Pin No.	1, 3 2	Pin No. 1,2,3,	5,6,7 Pin	No. 2 3, 6	4, 5 8, 1°	9,10,12,13	_
IC129	5 0	IC131	O IC1	2	5 12	0	
Pin No.	1,4,7,10,13	3,6,8,11,14	Pin No.	1, 3, 14 2, 7	4,5,6,8,9,	10	
IC133	0	5	IC134	5 0		5	
[B: N		1 2 2 42	1	F 0		_	
Pin No.	1, 11, 12	2, 3, 13	4, 10 5 0	5, 8	6, 9 5	_	
							
Pin No.	1,2,6,9,10, 5	13,14 3, 7,	24444	5, 1	2 1	5 0	
Pin No.	2, 7, 9	3, 11, 13	5	6	14, 18	_	
IC137	0	5 0	₩ ⁴	√√\ 1 ⁵	5		
<u> </u>				1	1 0 44	12	1 12
Pin No.	1,3,6,7,8 0	2, 10, 14	4 <i>*********</i> 5	1	9, 11	12 111,3	13
		1	· · · · · · · · · · · · · · · · · · ·				
Pin No.		2 5 0 WWW 0	5 0	5, 6 WWW 5 -	8, 12 5	9, 13 5 0	
L							

Pio No	1 1	E 7 1	1004	0.10.1	4 6		14	1					
Pin No.	1, 4,	5, 7, 1	2,3,1	0,12,14	+	, 9	11	1					
IC140		0		5		5 0	0.2						
Pin No.	1,3 ,	2 [Pin No.	2	6, 7 9,	11, 13	1:	5]				
IC141	5	\prod	10112			5			1				
10141		°	IC142	0	5	<u> </u>		L ₀					
(TRANSIS	TORS)												
	E	СВ		E	СВ		Е	С	В		E	СВ	
Q100	0	5 0	Q101	0	11 0	Q102	2 0	11	0 0	2103	0	0 5	
Q105		C B	0100	E	C B	0100	E	C	В	110	E	C B	
<u> </u>			Q108	5	0 5	Q109	5	0	5 C	2110	0	0 5	
Q111		C B	1										
			_										
4. CROS (ICs)	S POIN	NT SW	ITCH										
Pin No.	1-4,25	,35,37-	40 5	, 6, 36		3, 9	12-24	27-3	4.]				
10.555						4							
1C400		0	l /	₩₩₩ ⁴		o	5	0.2					
Pin No.	1-6, 8,	9, 19	7		11-18								
10404	1444444	11 5	1110111	ıı 4									
IC401	WWW	М о	111111	No	0.2								
Pin No.	1,	3	2,	4	5	6,7	,8,10,12		9		11, 13	3, 14	
	mm		mm		mm								
10402		 0		- 0			0		0.6		5		
Pin No.	1,4,9,10	12 15	<u> </u>	2	3,	<u> </u>	7 8	<u>_</u>				i	
, iii NO.	1,47,37,10	0,10,15	-				' *	1					
IC403		5	M	WM ₀	1WM	W 4.2	0 4						
	L	1					L	الــــ				, ,	
Pin No.	1-6	11-16	Pin No). 1,	2 3-6	11-16	Pin No). 1, 2	2, 3 4	- !	5, 6	11-16	
10406	0	-7	1040	7 0	5	-7	1040	8	5 0		5	-7	
<u></u>	<u> </u>	<u>L</u>		l	L	<u> </u>	<u> </u>						
Pin No.	1,2,3	4	5 6	11-16		1,2,12	,13-21	3,22	4-9]			
10409	5	0	4 0	-7	IC410		,	7	6				
				<u> </u>	10437	<u> </u>	l		<u> </u>]			
Pin No.	2,17,18	3,20,21	3	4-9	1	Pin No.	1, 9	-15	2-6	Pin N	0.	1,7,10-15	2-9

	Pin No.	1,2,3,5,6,7	Pin No.	1-4,8,9,11	5	6, 12	10	13
IC461	IC468							
	IC469	- 0	IC467	4	4	-7	5	6.4
IC466								

7

0

6

IC447 IC451

IC448 IC453

IC450 IC454

6

0

IC456

6

0

IC438

1C445

(TRANSISTORS)

	Ε	С	В		Е	С	В		Е	С	В		E	С	В
Q400		7	0	Q401	0	0		Q402	4	7	5	Q404	5	5	0

5. LC1,2 (ICs)

Pin No.	1,3,5,17	4,19,21,22,34-41,43-50,73	6-11	13	14,16,24-31,51,53,64,65,80	15	20
1C300	4	5	0.2	4.2	0	4.2	1

Pin No.	75	76
10300	√ √ 4 3	5 0

Pin NO.	1,3,4,6,8,9,11,13	2,5,10,12	Pin No.	1,2,3,5-9,11,19	4,12	13-18
IC301						
IC302	0	5	IC303	5	4	0.2
						ł

Pin No.	1,3,9	2,4,5,8,11,12	6, 10	13	Pin No.	3-9,11,13,15	12,14,16,17
1C304	5	0	4.2	1	IC305	5	4

(TRANSISTORS)

	Ε	С	В		Е	С	В		E	С	В		Е	С	В
Q300A				Q301A				Q302A			·	Q303A			
	12	12	12	1.	12	1,2	12		-14		-14		-14	-14	-14
Q300H				Q301H				Q302H				Q303H			

	E	C	В		Ε	С	В		Е	С	В		ш	С	В
Q304A				Q305A				Q306A				Q307A			
		5			0	5	0	1	5	0	5		0	12	0
Q304H				Q305H				Q306H				Q307H			L

	Ε	С	В		Е	С	В
Q311A	0	12	5	Q312A	12	0	12
Q311B		1		Q312B			

6. CO-1,2 (ICs)

	Pin No.	1,2,3,5,6,7	Pin No.	1, 9, 16	2,3,6,7,8,10,11,14,15
1C200A	IC201A		1C202A		
	1	0	1	5	0
1C200D	1C201D		1C202D	'	

Pin No.	1,2,3,8,9,12,13	4, 5, 16	14	15
IC203	0	5	√ √√ ⁴ ₀	√√√ _{-0.3}

Pin No.	1	4,5,9,11,13,14,18,19,30,31 32,34,35,45,70,71,72,74,75	65, 66, 67	68, 69, 76	77-80
IC204	0	5	2007/MMJ 4.5 0	111115	<i>m</i> 4

Pin No.	1	2-6,8,9	7	11, 17, 18	12-16
IC205	5 0.4	WIMM 5	4 0.4	11111 5	0

Pin No.	1, 4, 10	2, 5, 9	3, 6, 8	11, 12, 13
IC206	5	6.4 M	WWW 4.5 0	0

Pin No.	1,3,5,11	2,4,6,10	8	12	13
IC207	 5	0	5	0	5

(TRANSISTORS)

	Ε	С	В		E	С	В		Ε	С	В
Q202A				Q203A				Q204A			
1	0	12	0	1	0	12	0		0	12	0
Q202D				Q203D				Q204D			

■ IC/IO DATA

Explanation of ICs (Addition)

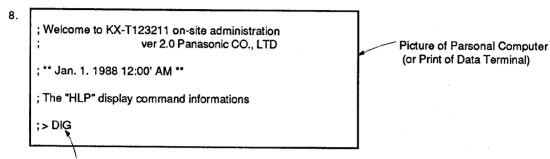
- 1. IC116 This IC is for 8-bit expansion I/O ports and has nine 8-bit general-purpose I/O ports.
- 2. IC104 This IC is for 8-bit expansion I/O ports and has six 8-bit general-purpose I/O ports and one 4-bit input port.
- 3. IC300 This IC has: (1) one 8-bit input port
 - (2) one 8-bit output port
 - (3) 8-channel input and output ports for extension data communication
 - (4) 4 output ports (BR0–BR3) for noise control for the doorphone 2 channel and the external paging 2 channel.
- 4. IC400 This 8255-byte IC is used in the extended I/O mode (mode 0).

■ ADJUSTMENT (Model KX-T123211)

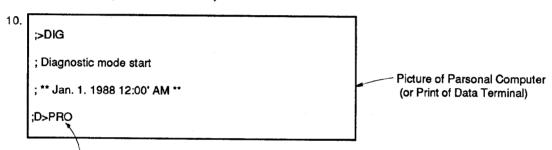
OSCILLATION PERIOD ADJUSTMENT

Perform the following adjustment after replacing IC127.

- 1. Attach the Diagnostic Card (Model KX-T123295) at the KX-T123211. (See Fig. 33)
- 2. Connect the AC cord to the AC outlet (AC 120V, 60Hz).
- 3. Set the Power Switch to ON.
- 4. Set the System Program Switch to "EIA" position. (See Fig. 31)
 (After adjustment, return the System Program Switch to "SET" position.)
- 5. Reciprocal light the Day and Night Indicators.
- 6. Connect the KX-T123211 and Parsonal Computer (or Data Terminal) by RS-232C cable.
- 7. Press the Data Key of the Parsonal Computer (or Data Terminal).

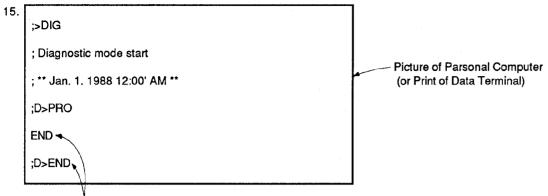


9. Input the DIG and press the Return Key.



- 11. Input the PRO and press the Return Key.
- 12. Connect the frequency counter. (See Fig. 32)
- 13. Set the frequency counter to "PERIOD" position.
- 14. Adjust VC100 for a reading of (/) msec on the frequency counter.

Room temperature for adjusting (°C)	Period value (msec)	Room temperature for adjusting (°C)	Period value (msec)
14~14.9	15.624943 (±0.00001)	20~20.9	15.624880 (±0.00001)
15~15.9	15.624933 (±0.00001)	21~21.9	15.624876 (±0.00001)
16~16.9	15.624922 (±0.00001)	22~27.9	15.624870 (±0.00001)
17~17.9	15.624910 (±0.00001)	28~28.9	15.624876 (±0.00001)
18~18.9	15.624899 (±0.00001)	29~29.9	15.624880 (±0.00001)
19~19.9	15.624888 (±0.00001)		



16. Input the END and press the Return Key.

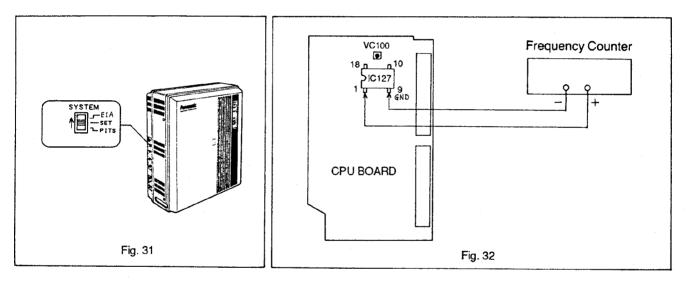
Notes: RS-232C

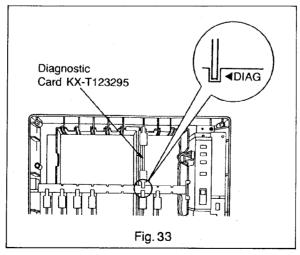
(Default Parameter)

1) Baud Rate: 1200 bps 2) Data Length: 7 bits 3) Stop Bit: 1 stop 4) Prity: Mark

However, this can be changed by programming. If it has been changed, follow the procedures according to the changes or execute "System All Clear".

Refer to the connection chart on page 3 for the connection of the RS-232C connector.





	REPLA	CEMEN	TPA	RTS	LIST					
Notes: Model KX-T123211										
1. The * mark in	dicates the chan	oes from	the k	(X-T1						
Į.	2. Printed circuit board assembly and power unit with mark (NLA) is no longer									
available after production discontinuation of the complete set.										
3. Important safety notice.										
Components	identified by the	∱ mark s	pecia	ıl cha	racteristics	important				
for safety.										
When replaci	ng any of these o	compone	nts, ı	se o	nly manufac	turer's specified				
parts.										
4. The S mark in	ndicates service :	standard	parts	and	may differ f	rom production				
parts.										
1	& CAPACITORS									
Unless otherw	,									
	re in ohms(Ω) k									
	are in MICRO FA	ARADS()	μF)F)= htt	F					
1	ige of Resistor									
Type			BAC							
ERC:Solid	ERX:Metal F				arbon					
ERD:Carbon	ERG:Metal C	,,,,,		Q:Fu						
PQ4R:Chip	ER0:Metal F	ım	EHI	:vvire	Wound					
Wattage	V 14,25,S2:1/4	W 112	50 S	1.1/2	W 1:1W	2:2W 5:5W				
	ge of Capacitor	VV 112	,50,5	1.1/2	V [1.1VV	2.244 5.544				
Type	ge of Capacitor									
ECFD:Semi-C	anductor	ECCD	CKL	PA	BC.PQVP	Ceramic				
ECQS:Styrol	o i iddoloi					CQB : Polyester				
POCBX.ECU	/·Chin				S : Electrol	· 1				
ECMS:Mica				•		""				
ECMS:Mica ECQP : Polyproplylene Voltage										
ECQ Type ECQG ECSZ Type Others										
ECQV Type										
1H: 50V	05: 50V	OF:3.1	5 V	a	:6.3V	1V :35V				
2A:100V	1:100V	1A:10V	′	1A	:10V	50,1H:50V				
2E:250V	2:200V	1V:35V	/	1C	:16V	1J :63V				
2H:500V		OJ:6.3\	/	1E,2	5:25V	2A :100V				

Ref. No.	Part No.	Part Name & Description	Pcs
	CABIN	IET & ELECTRICAL PARTS	
K1	PQYFT123210M	Front Cabinet Assembly	1
K2	PQYMT123211M	Cabinet Body Assembly *	1
K2-1	PQGT404Z	Name Plate *	1 .
K3	PQYUT123210M	Rear Cover Assembly	1
K4	PQGG52Z	LED Grille	1
K5 .	PQGK54Z	Indication Plate	1
K6	PQUV66Z	Cover	1
E1	P-01H-F2G1	Ni-Cd Battery	1
E2	PQLT1U9M1A	Bell Transformer	1
E3	RME143Z	Cord Band	3
E4	RME144Z	Cord Band	2
	ACCESSORIE	S AND PACKING MATERIALS	
A1	PQHE17Z	Mounting Bracket (Curl Plug)	3
A2	PQHE5014Z	Mounting Bracket (Screw) *	3
A3	PQQX5668Z	Installation Manual	1
A4	PQQX5669Z	User Guide *	1
A5	PQQX5670Z	EIA/Remote Programming Manual *	1
A 6	PQQX9266Z	Additional Features for Original * Operating Instructions	1
A7	PQQX9267Z	Station User Guide	1
A8	PQHR133Z	Band	2
A9	XSN4x40+28FY	Screw *	4
P1	PQPK649Z	Packing Case •	1
P2	PQPN9039Z	Pad Complete	1
P3	PQPE101Z	Pad	1
P4	PQPP118Z	Protection Cover (for Unit)	1
			1

7	Ref. No.	Part No.	Part Name & Description	T	Pcs
			BOARD PARTS		
	PCB1	PQWP1T123210	Main P.C. Board Ass'y (NLA)		- 1
	D10,13 D11 D12	LN220RPH LN420YPH LN320GPH	(DIODES) LED LED LED		2 1 1
	T1,2,3 L1,2,4, L5,7-9,	PQLT2D6B PQLQZM2R2M	(TRANSFORMERS & COILS) Transformer Choke Coil		3 9
	L11,13 L3,6	PQLQZM4R7K	Choke Coil	s	2
	sw sw	EVQQJH12T PQSS3A14Z	(SWITCHES) Switch, Reset Switch, Mode		1 1
	R1-14 R15-17 R19-22	ERD16TJ103 ERD16TJ821 ERD16TJ821	(RESISTORS) 10k 820 820		14 3 4
	JA1,2 JA3 CN1-3, 6A-6D,	PQJJ1E1Y RJJ19Y PQJS45S30Z	(JACKS & CONNECTORS) Jack, Paging Jack, Earphone Connector, 45P		2 1 10
	8A-8C CN4 CN5A- 5D,7A-	PQJS90S30Z PQJS8S32Z	Connector, 90P Connector, 8P		1 7
L T	7C CN9, 10A,	PQJS64S30Z	Connector, 64P		4
\dashv	10B,11 CN12- CN15	PQJS50S33Z	Connector, 50P		4
	CN16 CN17 CN18 CN19,	PQJS5R31Z PQJS5R32Z PQJS6R31Z PQJS10R31Z	Connector, 5P Connector, 5P Connector, 6P Connector, 10P	S	1 1 1 2
	CN20 CN21 CN22 J26	PQJS25P31Z PQJS2L44Z PQJP5D13Z	Socket, EIA Connector, 2P Connector, 5P		1 1 1
١		CPU	BOARD PARTS		
	PCB2	PQWP2T123211	CPU P.C. Board Ass'y (NLA)	•	1
7	IC100 IC101/ IC104	PQVIMS80C88 PQWIT123211M	(ICs) IC IC (ROM Kit)	٠	1
	IC102 IC103 IC105	PQVIPD43257C PQVIHM62256L PQVIMS8C84A2	с с с	S S	1 1
	IC106 IC107 IC108 IC109 IC110 IC111	PQVIM7H245P PQVIM7H245P PQVIM7H174P PQVIHD7L640P PQVIHD7L240P PQVIM7H373P	IC IC IC IC		1 1 1 1 1
	IC111 IC112 IC113 IC114 IC115 IC116	PQVIM7H373P PQVIM7H137P PQVIHD7L138P PQVIHD7L154P PQVI63HB110			1 1 1 1 1
	IC116 IC117 IC118 IC119 IC120 IC121	PQVIBSRB110 PQVIMS8C59A2 PQVIM7H107P PQVITC7H138P PQVIPD71054C PQVIPD71051C	C C C C C	s s s	1 1 1 1

Ref. No.	Part No.	Part Name & Description	\top	Pcs	Ref. No.	Part No.	Value	Pcs
IC122	PQVILR4089	IC	+-	1			(RESISTORS)	
IC123,	PQVIMT8870BC	IC		3	R68	ERD16TJ220	22	1
IC124,		1	-		R69-72	ERD16TJ103	10k	4
IC125			1	1	R73	ERD16TJ101	100	1
IC126	Not Used				R74	ERD16TJ221	220	1
IC127	PQVIMS6242BS	IC		1	R75-77	ERD16TJ151	150	3
IC128	Not Used			ļ	R78	ERD16TJ101	100	1
IC129	PQVIPS520C	IC		1		ERD16TJ103	10k	10
IC130	Not Used		- 1	1	R89	ERD16TJ104	100k	3
IC131	PQVINJM4558D	[IC	1	1		ERD16TJ124	120k	2
IC132	PQVIHD75188P	IC	1	1		ERD16TJ223	22k	2
IC133	PQVIHD75189P	IC .	-	1	R94	ERD16TJ103	10k	1
IC134	PQVIM7H32P	IC .		1	R95	Not Used	•	
IC135	PQVIM7H02P	lic	.	1	R96	ERD16TJ103	10k	1
IC136	PQVITC7H00P	IC s		1	R97	Not Used		
IC137	PQVITC7H04P)C s	[;]	1	R98,99	ERD16TJ103	10k	2
IC138	PQVIHD7LS04P	IC		1	R100	ERD16TJ683	68k	1.
IC139	PQVITC7H04P	IC s		1	R101	ERD16TJ103	10k	1 1
IC140	PQVITC7H04P	ic s	,	1	R102	ERD16TJ103	10k	1
IC141	POVIPS520C	IC		1	R103-	ERD16TJ102	1k	4
IC142	PQVIBU3140	IC	-	1	R106			
			1	1	R107	ERD16TJ103	10k	1 1
1					R108	ERD16TJ103	10k	1
l		(TRANSISTORS)			R109	ERD16TJ471	470	1 1
Q100-	DTC124EA	Transistor (Si)		4	R110	ERD16TJ472	4.7k	1
Q103			1	1	R111	ERD16TJ223	22k	1
Q104	Not Used	<u> </u>		l l	R112	ERD16TJ683	68k	1
Q105	2SC2021	Transistor (Si)		1	R113	Not Used	•	
Q106	Not Used	•	'	i	R114	Not Used	•	1
Q107	Not Used	i '	,	1	R115	ERD16TJ223	22k	1
Q108	DTA124EA	Transistor (Si)	- 1	1	R116-	ERD16TJ103	10k	4
Q109	DTA124EA	Transistor (Si)	ı	1	R119			1 1
Q110	DTC124EA	Transistor (Si)		1	R120-	ERD16TJ223	22k	3
Q111	DTA143XA	Transistor (Si)	- 1	1	R122			
i i			- 1	- 1	R123-	ERD16TJ103	10k	18
					R140			
ł		(DIODES)	- 1		R141-	ERD16TJ102	1k	6
D100	MA4091	Diode (Si)	- 1	1	R146		'	l I
D101	Not Used	•	١ ١	- 1	R147-	ERD16TJ103	10k	6
D102,	Not Used	•	١ ١	- 1	R152	Ì		i i
103			ļ		R153-	ERD16TJ102	1k	4
D104	1SS131	Diode (Si)		1	R156			1 1
D105	Not Used		İ		R157-	ERD16TJ103	10k	3
D106	Not Used	į.		1	R159			
D107-	1SS131	Diode (Si)		9	R160-	ERD16TJ183	18k	4
D115					R163		· ·	l I
D116	Not Used	1	- 1		R164	ERD16TJ103	10k	1 1
D117-	1SS131	Diode (Si)	- 1	5	R165	ERD16TJ184	18k	1
D121	Ì		- 1		R166	ERD16TJ183	18k	1 1
VD100	PQVD1SV124	Diode (Si)	- 1	1	R167	ERD16TJ394	390k	1 1
1			- F	ı	R168	ERD16TJ103	10k	1 1
1		(TRIMMER)			R169	ERD16TJ183	18k	1 1
VC100	PQCVTZB30B	Trimmer		1	R170	ERD16TJ103	10k	1
İ	1	1	- 1	1	R171	ERD16TJ333	33k	i
	ŀ	1			R172-	ERD16TJ103	10k	4
1		(COMPONENT COMBINATIONS)	-	- 1	R175	I	į	
CA101	PQXF4WB04	Capacitor Array	1	1	R176	ERD16TJ154	150k	1
Z108	EXBP84103K		s	1	R177	ERD16TJ105	1M	1
1		1	-	1	R178	ERD16TJ223	22k	1
1		1		1	R179	ERD16TJ223	22k	1 1
1		(CRYSTAL OSCILLATORS)	- 1	- 1	R180	ERD16TJ472	4.7k	1 1
X100	PQWET123210M	Crystal Oscillator Assembly	1	1	R181	ERD16TJ104	100k	1
X101	Not Used	1	1		R182	ERD16TJ333	33k	il
X102	PQVCX3579H5R	Crystal Oscillator		1	R183	ERD16TJ334	330k	1 1
X103	PQVCL3276N4Z	Crystal Oscillator		i	R184	ERD16TJ104	100k	i
1		I -			R185	ERD16TJ333	33k	1
	l	1			R186	ERD16TJ334	330k	i
ſ		(THERMISTERS)		- 1	R187	ERD16TJ104	100k	1
TH100	PORRTS104U	Thermister		1	R188	ERD16TJ333	33k	i
TH101	PORRTS203U	Thermister		i	R189	ERD16TJ334	330k	
1			1	·	R190-	ERD16TJ103	10k	10
		1	-		R199	1	· · · · ·	
	· ·	(COILS)		1	1		1	
L100-	PQLQZM1R5M	Choke Coil		4	1	I		
L103				7	1	I		
L104	PQLQZM2R2M	Choke Coil		1	1	l	<u> </u>	
L105	PQLQZM2R2M	Choke Coil		il	1	I		
	·	1-2					<u> </u>	

0100					1	l .		1	
	LEGEATION P.	(CAPACITORS)		7		CROSS POIN	SWITCH BOARD PARTS	1	
C100	ECEA1HU4R7	4.7	1		0000	LDOWDOT400040	I Company Company Company American	_	,
C101	ECEA1HU100 Not Used	10	S 1		PCB3	PQWP3T123210	Cross Point Switch P.C. Board Ass'y		1
C102	ECEA1HU100	10	5 1				(NLA)		1
C103	ECEA1HU100	1	S 1		1	•	(ICs)	1	
C105	ECEATICSS102	1000	1		IC400	PQVIPD71055C	ic s		1
C106	ECEA1HN3R3S	33	1		IC401	PQVIHD7L640P	lic	1	1
C107		1	3		IC402	PQVIHD7LS04P	ic		1
C109	20271110100	'	7 "		IC403	PQVIHD7LS08P	lic		1
C110	ECEA1EU470	47	S 1		IC404	AN78L07	ic	1	1
C111	ECEA1EU470		s 1		IC405	AN79L07	ic	1	1 1
C112		"	1 .		IC406-	PQVITD62706P	ic	1	4
C119					IC409			1	
C120	ECQV1H104JZ	0.1	1	- 1	IC410-	PQVIM402101P	lic	1	36
C121	ECQV1H104JZ	0.1	1	- 1	IC445		Ĭ		
C122	Not Used	· ·	1		IC446	Not Used	*		ŀ
C123	Not Used		1	- 1	IC447	PQVIPD22100C	IC S	s	1
C124	ECCD1H150JC	150P	1	- 1	IC448	PQVIPD22100C	IC S	s	1
C125	ECCD1H150JC	150P	1 1	- 1	IC449	Not Used			ļ
C126	Not Used	1	1		IC450	PQVIPD22100C	IC S	s	1
C127	Not Used		1		IC451	PQVIPD22100C	IC S	S	1
C128	Not Used	l .	1	- [IC452	Not Used	1	l	
C129	ECQM1H472JV	0.0047	1 1	1	IC453-	PQVIPD22100C	IC S	S	4
C130	ECFD1C104KD	0.1	1		IC456	I		1	
C131	ECQV1H104JZ	0.1	1 1		IC457-	Not Used		1	
C132	ECFD1C104KD	0.1	1	ı	IC460		1	ı	
C133	ECQV1H104JZ	0.1	1		IC461-	PQVINJM4558D	IC .	-	6
C134	ECFD1C104KD	0.1	1	- 1	IC466		1	_	
C135	ECQV1H104JZ	0.1	1		IC467	PQVIPD4066BC	* · ·	S	1
C136	Not Used			ı	IC468	PQVINJM4558D	IC	1	1
C137	Not Used	1	Ι.	- 1	IC469	PQVINJM4558D	IC	ı	1 .
C138		0.1	1		1			1	
C139		0.01	1	- 1					
C140		1	Ι.		I		(TRANSISTORS)	1	
C141	ECKD1H103KB	0.01	1 1	ı	Q400	2SC2021	Transistor (Si)	1	1
C142		0.001	1		Q401	2SC2878	Transistor (Si)	1	1
C143		0.001	1	- 1	Q402	DTC124EA	Transistor (Si)	1	1
C144			ł		Q403	Not Used	Transistor (Si)		
C150		0.000	1.		Q404	DTA124EA	Transistor (Si)	1	1
C150		0.022	4				(DIODES)		
C154				ı	D400	100101	(DIODES)	1	00
C155		0.022	Ι.	- 1	D400- D435	1SS131	Diode (Si)	1	36
C156		0.022	1 1		D436	MA4047	Diode (Si)	ı	1
C157		10.022	1 '	. [D437	MA4047	Diode (Si)		1
C158		0.022	4	- 1	D438	1SS131	Diode (Si)		1
C161		0.022	"		D439	155131	Diode (Si)		1
C162			1		D405	100101	Diode (Si)		•
C165		1	ŀ	ı	1	-			
C166		0.022	10	、 I	1	ł	(COMPONENT COMBINATIONS)	ı	
C175		10.022	1 "	' I	Z400-	EXBP86103K	, , , , , , , , , , , , , , , , , , ,	s	4
C176			1	ı	Z400-	- XD: 30103K	1 Doloto Allay	1	7
C177		47	S 1	ı		1		1	
C178		Ι"	Ί΄			1	(TRANSFORMER)		
C179		0.022	1 1		T400	ETA14Y85AY	Transformer	1	1
C180		_	1 '		1			1	•
C181		0.022	1					1	
C182			1	- 1	I		(RESISTORS)	1	
C183		0.022	1	- 1	R400	ERD16TJ103	10k	1	1
C184		0.022	1		R401	ERD16TJ103	10k		1
C185		_	1	Į	R402	Not Used		1	
C189					R403	ER016CKF1180	118	1	1
C190		0.022	1	-	R404-	ERD16TJ103	10k	1	21
C191		0.022	1		R424				
C192		1		- 1	R425-	ERD16TJ472	4.7k		3
C196		1		l	R427		1	1	
C197		15P	1		R428	ERD16TJ223	22k		1
C198		15P	1		R429	Not Used			
C199	ECEA1EU470	47	1	ı	R430-	ER016CKF1180	118		31
		1			R460				
1		(OTHERS)	ŀ		R461-	ER016CKF1021	1.02k	1	32
1	PQDF996Z	Shaft	2	ŀ	R492			1	
2	PQUB11Z	Palstic Parts, Latch	2		R493-	ER016CKF1430	143	1	12
3	PQME52Z	Plastic Parts, Stopper	4	- 1	R504			1	i
CNA	PQJP14D49Z	Connector, 14P	1		R505-	ER016CKF1001	1k	1	12
CN1,	PQJP45S30Z	Connector, 45P	2		R516			丄	

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Value, Part Name & Description	Pcs
R517	ER016CKF1151	1.15k	1	C413	ECKD1H223MD	0.022	1
R518	ER016CKF1151	1.15k	1 1	C414	Not Used	0.022	1 '
R519	Not Used		'	C415	Not Used		
R520	Not Used			C416	Not Used		
R521	ER016CKF3401	3.4k	1	C417	ECKD1H102JA	0.001	1
R522	ER016CKF3401	3.4k	1	C418	Not Used		l
R523-	ER016CKF3921	3.92k	5	C419	Not Used		
R527 R528	EDDICTION	1004		C420	ECQM1H102JV	0.001	1
R529	ERD16TJ104 ERD16TJ223	100k 22k	1	C421 C422-	ECQM1H102JV	0.001	1 1
R530	ERD16TJ333	33k	1 1	C422-	ECQV1H273JZ	0.027	5
R531	ERD16TJ333	33k	i	C427	ECKD1H102JA	0.001	1
R532	ERD16TJ102	1k	1	C428	ECKD1H332KB	0.0033	i
R533	ERD16TJ102	1k	1	C429	ECKD1H102JA	0.001	1
R534	ERD16TJ222	2.2k	1	C430	ECKD1H332KB	0.0033	1
R535	ERD16TJ223	22k	1	C431	ECFD1C104KD	0.1	1
R536 R537	ERD16TJ333 ERD16TJ222	33k 2.2k	1	C432	ECFD1C104KD	0.1	1
R538	ERD16TJ222	2.2k	1	C433 C434	ECKD1H332KB	0.0033	1 1
R539	ERD16TJ333	33k	1 1	C434	ECQV1H333JZ Not Used	0.033	1
R540	ERD16TJ332	3.3k	i	C436	Not Used		
R541	ERD16TJ472	4.7k	i	C437	Not Used		
R542	ERD16TJ222	2.2k	1	C438-	ECQM1H222JV	0.0022	4
R543	ERD16TJ472	4.7k	1	C441			
R544	ERD16TJ334	330k	1	C442	ECFD1C104KD	0.1	1
R545	ERD16TJ333	33k	1	C443	ECQV1H683JZ	0.068	1
R546 R547	ERD16TJ103	10k	1	C444	ECFD1C104KD	0.1	1 1
R548	ERD16TJ153 ERD16TJ103	15k 10k	1	C445	ECQV1H473JZ	0.047	1
R549	ERD16TJ681	680	1	C446 C447	Not Used ECKD1H223MD	0.000	1 . 1
R550	ERD16TJ681	680	1 1	C448	ECKD1H223MD	0.022 0.022	
R551	ERD16TJ332	3.3k	i 1	C449	Not Used	0.022	'
R552	ERD16TJ683	68k	1	C450	ECKD1H103KB	0.01	1
R553	ERD16TJ823	82k	1	C451	ECKD1H223MD	0.022	1 1
R554	ERD16TJ224	220k	1	C452	Not Used		
R555	ERD16TJ474	470k	1 1	C453-	ECKD1H223MD	0.022	4
R556 R557	ERD16TJ563 ERD16TJ184	56k 180k	1 1	C456			1
R558	ERD16TJ823	82k		C457	Not Used	0.000	_
R559	ERD16TJ683	68k	1 1	C458- C464	ECKD1H223MD	0.022	7
R560	ERD16TJ823	82k	1 1	C465	ECEA1CSS102	1000	1 1
R561	ERD16TJ224	220k	i	C466-	Not Used	1000	'
R562	ERD16TJ823	82k	1	C469		1	
R563	ERD16TJ474	470k	1	C470	ECKD1H102JA	0.001	1 1
R564	ERD16TJ184	180k	1	C471	ECKD1H102JA	0.001	1
R565	ERD16TJ563	56k	1	İ			
R566- R569	Not Used						
R570	ERD16TJ102	1k	1	1.	DODEonez	(OTHERS)	
R571	ERD16TJ102	1k	1 1	2	PQDF996Z PQUB11Z	Shaft Plastic Parts, Latch	2
R572-	ERD16TJ104	100k	3	CN3	PQJP45S30Z	Connector, 45P	2
R574				CN4	PQJP90S30Z	Connector, 90P	
R575	ERD16TJ332	3.3k	1	1			'
R576	ERD16TJ102	1k	1	L_			
R577-	Not Used	·				LC (1,2) BOARD PARTS	
R583	EDD4cT Icco	Sol.	,				
R584 R585	ERD16TJ563 Not Used	56k	1	PCB4	KX-T123270	LC P.C. Board Ass'y (NLA)	2
R586	ERD16TJ183	18k		1		(Supply by business route)	
R587	Not Used	ION .	1	1	Ì	(ICs)	
R588	ERD16TJ103	10k	-1	IC300	PQVI671152F	ICS)	1
R589	ERD16TJ103	10k	1	IC301	PQVIHD7LS08P	ic	
]			'	IC302	PQVIHD7LS08P	ic	
		(CAPACITORS)		IC303	PQVIHD7L640P	ic	1 1
C400	Not Used			IC304	PQVIHD7LS04P	ic .	1 1
C401	Not Used			IC305	PQVIHD7L244P	IC	1 1
C402	ECEA1EU470	47 S	1				[]
C403 C404	ECEA1EU470	47 S 47 S 22 S	1			CDANIOIOTO CO	
	ECEA1HU220 ECEA1HU220	22 S 22 S	1	02004	004007	(TRANSISTORS)	
	ECEA1HN2R2S	22 22	1	Q300A-	2SA937	Transistor (Si)	8
	ECEA1EU101	100 S	1	Q300H Q301A-	2SB644	Transistor (Si)	8
1 - 1	Not Used	"	· 1	Q301H	LOUGHT	TO GOOD (OI)	
	ECQM1H222JV	0.0022	1	Q302A-	2SD639	Transistor (Si) *	8
	ECKD1H223MD	0.022	1	Q302H			-
	Not Used	I	1]			İ
C412	Not Used						

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Value, Part Name and Description	Pcs
Q303A-	2SC2021	Transistor (Si)	24		<u> </u>	(COMPONENT COMBINATIONS)	
Q303H,		` ´		Z300	EXBP88472K	Resistor Array S	1
Q304A-				Z301	PQRS8B8102J	Resistor Array	1
Q304H,		[Z302	EXBP84103K	Resistor Array S	1
Q305A-						·	
Q305H	1 1814 4 0 0	TD-maister (Ch		1	*	(DUOTO EL FOTOIO TOUNODUOEDO)	
Q306A- Q306H	UN1122	TRansistor (Si)	8	PC	PQVIPC817K	(PHOTO ELECTRIC TRANSDUCERS) Photo Coupler S	
Q307A-	DTC124EA	TRansistor (Si)	8	300A-	PQVIPC817K	Photo Coupler S	8
Q307H	DI GIL ILI	Triansision (oi)	ľΙ	PC		i i	
Q308A-	Not Used			300H			
Q308H					1	1	
Q309A-	Not Used			1		· · · · · · · · · · · · · · · · · · ·	
Q309H				1		(CRYSTAL OSCILLATOR)	
Q310A- Q310H	Not Used			X300	PQVCX4000N8Z	Crystal Oscillator	1
Q311A	DTC124EA	Transistor (Si)	1				
Q311B	DTC124EA	Transistor (Si)	1	1		(TRANSFORMERS)	
Q312A	DTA124EA	Transistor (Si)	1	T300A-	ETA14Y85AY	Transformer	8
Q312B	DTA124EA	Transistor (Si)	1	T300H			
				T301A-	ETE13K38AY	Transformer	8
				T301H		1	
Dagge	MA4047	(DIODES)	, I				
D300A- D300H,	MA4047	Diode (Si)	16			1/00#8	
D300H,			l	L300A-	PQLQZM2R2M	(COILS) Choke Coil	16
D301H			1	L300H.	I GLGZINZI IZW	Chore oon	10
D302A-	1SS131	Diode (Si)	8	L301A-			l
D302H,			- 1	L301H,			
D303A-	Not Used	·	l				1
D303H,		·					
D304A- D304H						(DELAYO)	
D305A-	1SS131	Diode (Si)	8	RLY	PQSL41Z	(RELAYS) Relay *	8
D305H		Diede (di)	· I	30A-	I GOLYIZ	l total	ľ
D306A-	Not Used			RLY			
D306H				30H		,	
D307A-	MA4056	Diode (Si)	8		PQSL49Z	Relay	1
D307H D308A-	100101	Districtor		RLY31B	PQSL49Z	Relay 🛆	1
D308A-	1SS131	Diode (Si)	43	1			
D309A-						(RESISTORS)	
D309H,				R300A-	ERD16TJ330	33	8
D310A-				R300H			
D310H,		i		R301A-	ERD16TJ220	22	8
D311A-		i		R301H			
D311H, D312A-				R302A-	ERD16TJ682	6.8k	16
D312H	•			R302H, R303A-			
D313,				R303H	ļ		
D314A,					ERD16TJ220	22	8
D314B			İ	R304H		l	
		i l		R305A-	ERD16TJ330	33	8
		NADIOTODO:		R305H			
ZNID	ED7C00DV044	(VARISTORS)	4.6	R306A-	PQRD2TJ102	1k	8
ZNR 30A-	ERZC03DK241	Varistor	18	R306H	ERD16TJ153	15k	8
ZNR				R307H	EUDIDIDID	l lak	°
30H,					ERD16TJ123	12k	8
ZNR				R308H		··	
31A-				R309A-	ERD16TJ101	100	8
ZNR				R309H			
31H,				R310A-	ERD16TJ473	47k	8
ZNR32, ZNR33				R310H	CDD4cT H04	100	1.
LINESS		j		R311A- R311H,	ERD16TJ121	120	16
				R312A-	· ·		
		(THERMISTORS)		R312H			
PTH	PQRPAR8R2M	Thermistor	8		ERD16TJ222	2.2k	8
30A-		ļ		R313H			
PTH			I		ERD16TJ221	220	- 8
30H			- 1	R314H	EDD46T 1470	1.7%	,
			- 1	R315A- R315H	ERD16TJ472	4.7k	8
]	i		l	110101			
l i			- 1				

Ref. No.	Part No.	Value, Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
R316A- R316H.	ERD16TJ103	10k	9		00-1	BOARD PARTS	
R317				PCB5	KX-T123280	CO-1 P.C. Board Ass'y (NLA)	1
R318	Not Used			1.050	TOX T TEDEDO	(Supply by business route)	'
R319	ERD16TJ472	4.7k	1				
R320	Not Used	1				(ICs)	
R321 R322	ERD16TJ472 Not Used	4.7k	1	IC200A		ic	8
R323	ERD16TJ103	10k	1 1	IC200D IC201A			
R324	Not Used		'	IC201D			
R325	Not Used			IC202A	PQVINJ7301D	IC	4
R326	ERD16TJ105	1M	1	IC202D		1	
R327-	ERD16TJ103	10k	. 5	IC203	PQVIBU 3149	IC	1
R331				IC204 IC205	PQVI672191F	IC IC	1
	1			IC205	PQVIHD7L640P PQVIHD7LS08P	IC .	1
				IC207	PQVIHD7LS04P	ic	1
1	ł					(TRANSISTORS)	
	ļ			Q200A-	2SC2590	Transistor (Si) $\hat{\Delta}$ S	4
		(CADACITORS)		Q200D Q201A-	M-441		
C301A-	ECEA1HU3R3	(CAPACITORS)	8	Q201A- Q201D	Not Used		
C301H	LOLIVITIOONIO	3	"	Q202A-	DTC124EA	Transistor (Si)	12
C302A-	ECEA1HU2R2	22	8	Q202D.	BIOILACA	Transision (Oi)	12
C302H				Q203A-			
C303A-	ECEA1HU3R3	3.3 S	8	Q203D			
C303H	FOE A LIBIA DEC	1		Q204A-			
C304A- C304H	ECEA1HN4R7S	4.7	8	Q204D			
C305A-	ECEA1HU010	11	16				•
C305H,		1	'			(DIODES)	1
C306A-				D201A-	MA4150	Diode (Si)	4
C306H			1	D201D	ł		
C307A-	ECKD1H103KB	0.01	16	D202A-	Not Used		
C307H, C308A-				D202D	DOVDOM (054		
C308H				D203A- D203D	PQVDS1YB40F1	Diode (Si)	4
C309	ECCD1H221J	220P	1 1	D203D	MA4047	Diode (Si)	8
C310	ECEA1HU100	10	li	D204D,		Diode (Si)	٠
C311	Not Used			D205A-		·	ı
C312	Not Used	1	1	D205D			- 1
C313 C314	ECKD1H223MD Not Used	0.022	1 1	D206A-	1SS131	Diode (Si)	4
C315	Not Used		1	D206D D207A-	Not Used		- 1
C316	Not Used			D207A	NOI USED		- 1
C317	PQCBC1C103MY	0.01	1	D208A-	PQVDSV03YSW	Diode (Si)	4
C318	ECEA1EU101	100	1	D208D			1
C319	Not Used			D209A-	1SS131	Diode (Si)	16
C320 C321	ECEA1EU470	47 S	1 1	D209D,			i
C321	ECEA1EU101 ECEA1EU101	100	1 1	D210A- D210D,			I
C323	Not Used	100	'	D210D,			- 1
C324	Not Used			D211D,			1
C325	ECCD1H220JC	22P	1 1	D212A-			ı
C326	ECCD1H220JC	22P	1 1	D212D			ŀ
C327A-	ECKD1H471KB	470P	16		Not Used		i
C327H,				D213D			I
C328A- C328H				D214A-	1SS131	Diode (Si)	12
I COLOT				D214D, D215A-			1
				D215D,	l		ı
				D216A-			l
l.		(OTHERS)		D216D	1		l
1	PQDF996Z	Shaft	2				l
2 CNA	PQUB11Z	Plastic Parts, Latch	2			(8) (87)	i
CNA	PQJS50Q30Y PQJP8S30Z	Socket, 50P • Connector, 8P		PC	DOMBO8436	(PHOTO ELECTRIC TRANSDUCERS)	, I
CNC	PQJP45S30Z	Connector, 45P		200A-	PQVIPC817K	Photo Coupler	4
			'	PC PC	1		
]]		l]	200D	1		. [
1				PC	POVITLP521	Photo Coupler 🛕	4
				201A-	l		I
] .		ì		PC		į l	I
				201D			
		<u> </u>			l	I	

Ref. No.	Part No.	Value, Part Name & Description	T	Pcs	Ref. No.	Part No.	Value	Pcs	٦
ZND	DOV/DDCC40414	(VARISTORS)	T		R212A-	ER016CKF1003	100k	8	٦
ZNR 20A-	PQVDDSS401M	Varistor	₾	8	R212D, R213A-	ŀ	1		
ZNR		ł	- [R213D			1	1
20D,			-	1	R214A-	Not Used		1	ı
ZNR 21A-		·		· 1	R214D R215A-	ER016CKF1003	100k	8	1
ZNR		· ·			R215D.	ENUISCRETUUS	TOOK	ľ	
21D				- 1	R216A-				
ZNR 22A-	ERZC07DK820	Varistor	△	4	R216D	N-11			
ZNR				1	R217A- R217D	Not Used			
22D			-		R218A-	ER016CKF2613	261k	4	
1		(CEDAMIC EILTED)			R218D	EDD40T1400	L.,	1	
X201	PQVBFC3584A1	(CERAMIC FILTER) Ceramic Filter		1	R219A- R219D	ERD16TJ102	1k	4	-
				.	R220A-	ER016CKF1211	1.21k	8	
DLY	0001047	(RELAYS)	,		R220D,	·		1	ı
RLY 20A-	PQSL34Z	Relay	Δ	4	R221A- R221D]		
RLY		· ·			R222A-	Not Used	1		
20D		l			R222D				1
RLY 21A-	PQSL63Z	Relay	Δ	4	R223A- R223D,	ER016CKF1003	100k	16	
RLY		İ			R224A-			1	
21D		l	. 1		R224D,				١
RLY 22A-	PQSL41Z	Relay	Δ	4	R225A- R225D,				
RLY					R226A-				1
22D		İ	- [- 1	R226D				ı
		(TRANSFORMEDS)	-	1	R227A-	Not Used]		
T200A-	ETA14Y85AY	(TRANSFORMERS) Transformer	Δ.	4	R227D R228A-	ER016CKF2613	261k	4	1
T200D			-	· 1	R228D	27.01001.112010	LOTA	7	
1		(COII S)			R229A-	ERD16TJ391	390	4	- 1
L200A-	PQLQZL101K	(COILS) Choke Coil	\triangle	8	R229D R230A-	ERD16TJ152	1.5k	₄	1
L200D,			_	- 1	R230D	2.1.0 1010102		`	1
L202A- L202D					R231A-	Not Used			
L202D	PQLQZK100K	Choke Coil	Δ	8	R231D R232A-	ERD16TJ471	470	4	1
L201D,			_		R232D	1	773	'	1
L203A- L203D			1		R233A-	ERD16TJ122	1.2k	4	۱
L203D	PQLQZK220K	Choke Coil		8	R233D R234A-	Not Used			
L204D,					R234D				ı
L205A- L205D					R235A-	ERD16TJ471	470	4	-
12050			-		R235D R236A-	ERD16TJ122	1.2k	4	١
					R236D			'	-
POODA	ERD16TJ151	(RESISTORS)				ERD16TJ105	1M	4	١
R200D	LINDIOIOISI	150		4	R237D R238A-	Not Used		1	ı
R201A-	ERDS1TJ223	22k	Δ	4	R238D				١
R201D R202A-	ERDS2TJ102	1k	\triangle		R239A-	ERD16TJ102	1k	4	١
R202D	LN00210102	1"	477	4	R239D R240	Not Used			١
R203A-	ERD16TJ5R6	5.6	⚠	4	R241	Not Used	İ		ı
R203D R204A-	ERD16TJ822	8.2k	\triangle	4	R242 R243	Not Used	4.7%	١.	
R204D	LND 1010022	0.24	47	-	R244	ERD16TJ472 Not Used	4.7k	1	١
	ERD25TJ330	33	Δ	4	R245A-	ERD16TJ105	1M	4	ı
R205D R206A-	ERD16TJ473	47		4	R245D R246	ERD16TJ103	101-		
R206D	L1101010470	[7'	-	7	R247-	ERD16TJ223	10k 22k	1 4	
R207A-	ERD16TJ472	4.7k	ı	4	R250				
R207D R208A-	ERDIST M79	47		,	R251	ERD16TJ101	100	1	
R208A-	ERD16TJ473]"'	△	4	R252 R253A-	ERD16TJ105 ERD16TJ103	1 M 10k	6	ł
R209A-	Not Used				R253D,			<u> </u>	
R209D	EB0160VF1014	1.24			R254		1	1	
R210A- R210D,	ER016CKF1211	1.21k		8	R255 R256	Not Used Not Used		1	
R211A-		1			R257	Not Used			
R211D		1		- 1	R258	ERD16TJ102	1k	1	J
					R259 R260	Not Used ERD16TJ470	47	1	1
					NZ00	LUDIO10470	17/		

C200A	Ref. No.	Part No.	Value, Part Name & Description	T	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
CORDIA C	R261	ERD16TJ184	180k	7	1	1	CO-2 B	OARD PARTS	·
CORDIA C						DCDG	KV T122201	ICO 2 D.C. Boord Apply /All All	
CORDINATION CORDINATION			(CAPACITORS)	١		I CB0	NA-1 123261		1
C2010 C201		ECQE1104KN	0.1	1	4				
C2020A C		ECOESATAKE	0.47			100004	DOMENTALE		
CO2010 C		COGCZ474KI	0.47	Δ.	٦		P C/4 II 401414050ED		4
C2020A C2040A C207VH104JZ C20		ECEA1HU220	22	⚠	8	IC201A-		·	
C20404							DOMESTICAL D	1,0	
C2940 C2940 C2941 C294 C294 C294 C294 C294 C295 C2940 C2				-					1 1
C295D C20	C204A-	ECQV1H104JZ	0.1		4			lic .	1
C2096		COCA 41 II 1000							1
C2056 C2070 C207		ECEA IHUZZU	22	△	4		1		1 1
Commons		ECKD1H102JA	0.001	- 1	4	•	•		
C209A C209	1 .	FOED4F00014D				l			İ
C208A C209B C200HB60UC SeP B C200A ScC2690 Transistr (Si)		ECFD E683MD	0.068		8	l	}	(TRANSISTORS)	İ
C2091 C2011-A C2011-A C2012-A C2012-A C2012-C2010 C2012-A C2012-C2010 C2012-A C2012-C201	C208A-					Q200A	2SC2590		1
C200B		ECODALIES IO		- [_			Transistor (Si)	1
C210A CC110D C211A ECFD1E333KD C033		ECCDIHSOUC	56P	- 1	8				
C211A			·					Transistor (Si)	6
C211D		EOFD / FORMUS		- 1					
C212A		ECFD1E333KD	0.033		4				1
C213D		Not Used		1				*	
C214B						Q204B			
C214A		ECFD1E183KD	0.018		4				1 .
C214D C215D C21		Not Used		ł		1		(DIODES)	. .
C215D C216 C216 C217 ECKD1H223MD C221 C218 C219 ECKD1H223MD C220 C219 ECKD1H223MD C0022 1 C204B, C210 ECKD1H223MD C0022 1 C204B, C220 ECKD1H223MD C0022 1 C204B, C220 ECKD1H223MD C0022 1 C204B, C220 ECKD1H223MD C0022 1 C204B, C220 ECKD1H223MD C0022 1 C204B, C220 ECKD1H223MD C0022 1 C204B, C220 ECKD1H203MD C001 1 C206B C220 ECKD1H203MD C001 C220 ECKD1H203MD C001 C220 ECKD1H203MD C001 C220 ECKD1H203MD C001 C220 ECKD1H203MD C001 C220 ECKD1H203MD C001 C220 ECKD1H203MD C001 C220 ECKD1H203MD C001 C220 ECKD1H203MD C0022 Δ Δ C220 ECKD1H203MD							1	Diode (Si)	1
C216		ECFD1E183KD	0.018		4			Diode (Si)	1
C219 CKDH14223MD C220 CKDH14223MD C221 CKDH14223MD C222 CKDH14223MD C222 CKDH14223MD C222 CKDH14223MD C222 CKDH14223MD C222 CKDH14223MD C222 CC222 CKDH14223MD C222 CC222 CKDH14223MD C222 CC222 CKDH14223MD C222 CC222 CC222 CC223 CC224 CC224 CC224 CC225A		Not Used		- 1					
C219 ECKD1H223MD 0.022 1 0.020 1 0.022 1 0.022 0.0			0.022	- 1	1			Diode (Si)	1
C220 ECKD1H223MD C022 1 C220 C221 C221 C221 C221 C221 C221 C222 C221 C222 C223 Not Used C224 C225 C225 C225 C225 C226 C226 C227 C227 C222 C226 C227 C227 C222 C225 C227 C222 C225 C227 C222 C225 C222 C225 C222 C225 C222 C225 C222			0.022	ſ	. 1	1			1
C221 ECKD1H103KB 0.01 1 D205A D205B D206A D20			1	- 1			MA4047	Diode (SI)	4
C223		f -	•	- 1		D205A,	ł		
C224			0.01	1	1		400404	Di- d- (0)	
C225A C225A C225A C225B C225							1		1
C225 C226 C226 C227 Not Used C227 C228 ECEA1EU470 47 S 1 D208A D208B D208B C229 ECEA1EU470 47 S 1 D209A D208B D208		ECKDKC222KB	0.0022	Δ	4	D207A			,
C227		ECEA1ELIA01		ı	. 1			Di-1- (C)	
C228 CCEATEU470 47 S 1 D209B, D209B, D209B, D210A, D210B, D2			100	ı	'			Diode (Si)	1 1
C229 CCEA1EU101 100 1 D2098, D210A, D210B D210B D210A, D210B D210A, D210B D210A, D210B D210A, D210B					1 1	D209A,	1	Diode (Si)	8
C231 C232 C232 Not Used C233 C23				3	' 1	,			
C232									
C237 C238A- C238D C239 ECEA1HU100 10 1 1 D212A, D212B D213B Not Used Not Used Not Used Not Used SS131 Diode (Si) OTHERS) 1 PQDF996Z Shaft 2 D215B, D215B, D215B, D215B, D215B, D215B, D215B, D215B, D215B, D215B, D215B, D215B, D216B, D216B, D216B, D216B CNB PQJP8S30Z Connector, 8P 1 Connector, 8P 1 PQJP45S30Z				ı		D211A,			
C238A- C238D C239 ECEA1HU100 10 1 D212B D213A Not Used Not		Not Used			ŀ				
C238D C239 ECEA1HU100 10 1 D213A D213B D214A, D214B, D215A, D215B, D215A, D215B, D215A, D215B, D215B, D215B, D216A, D216B D214A, D214B, D215B, D215B, D216B D216A, D216B D216B		ECKD1H103KB	0.01		4				
D214A, D215B, D215B, D215B, D216A, D216B	C238D				- 1	D213A			
D2148, D215A, D215B, D216A, D215B, D216A, D216B	C239	ECEA1HU100	10		1			Diada (Ci)	
1					ı		133131	Diode (21)	6
1					1	D215A,			
2 PQJP8S30Z PQJP8S30Z Connector, 8P 1 1	1	PODE9967	• •		,				
CNB				- 1					
MJ1-4 PQJJ1TA11Z Jack					1			1	
X201 PQVBFC3584A1 Ceramic Filter (PHOTO ELECTRIC TRANSDUCERS) PC200A PQVIPC817K Photo Coupler								(CEDAMIC EILTED)	
PC200A PQVIPC817K Photo Coupler AS PC200B PQVIPC817K Photo Coupler AS PC201A PQVIPC917K Photo Coupler AS PC201A PQVIPC91 Photo Coupler		i swiinii4	, and the second	دت	7	X201	PQVBFC3584A1		1.
PC200A PQVIPC817K Photo Coupler ASS PC200B PQVIPC817K Photo Coupler ASS PC201A PQVITLP521 Photo Coupler ASS	1			-	- 1				
PC200A PQVIPC817K Photo Coupler ASS PC200B PQVIPC817K Photo Coupler ASS PC201A PQVITLP521 Photo Coupler ASS					- 1	1		(PHOTO ELECTRIC TRANSPINCERO)	
PC200B PQVIPC817K Photo Coupler AS PC201A PQVITLP521 Photo Coupler A					1	PC200A	PQVIPC817K	1	1
1 I possep poverti prov. pre-e-service (44)	1 1						the state of the s	Photo Coupler A S	1 1
PC201B PQVITLP521 Photo Coupler			`					In a contract the	1 1
PC201B PCV11LPS21 Pnoto Coupler A	<u></u>		,		1	L CZUIB	, STILL JE!	1 Hoto Couplei	_ '

Ref. No.	Part No.	Value, Part Name & Desc	ription	Pcs	Ref. No.	Part No.	Value	Pcs	3
		(VARISTORS)			R220A,	ER016CKF1211	1.21k	4	ᅵ
ZNR20A	PQVDDSS401M	Varistor	A	4	R220B,			1	1
ZNR20B				i	R221A,			1	1
ZNR21A			į	1	R221B	Nant I a a w			
ZNR21B		Mariatar		I	R222A R222B	Not Used Not Used		1	- 1
	ERZC07DK820 ERZC07DK820	Varistor Varistor	<u>A</u>	1	R223A,	ER016CKF1003	100k	8	l
ZIVNZZD	ENZCU/DROZU	Varistor	777	- i	R223B,	LNO IOON 1005	TOOK	ľ	- !
		((RELAYS)	•	· '	R224A,				- 1
RLY20A	PQSL34Z	Relay	Δs	1	R224B,			1	ı
RLY20B	PQSL34Z	Relay	Æs	1	R225A,			1	
RLY21A	PQSL63Z	Relay	Δ	1	R225B,			1	
	PQSL63Z	Relay	<u> </u>	1	R226A,				
	PQSL41Z	Relay	4	1	R226B	NI-Allaad		1	
RLY22B	PQSL41Z	Relay	Δ	1	R227A R227B	Not Used Not Used			- 1
		(TRANSFORMERS)		ŀ	R228A	ER016CKF2613	261k	1	
T200A	ETA14Y85AY	Transformer	Δ	1	R228B	ER016CKF2613	261k	1 1	
T200B	ETA14Y85AY	Transformer	Δ	1	R229A	ERD16TJ391	390	1	- 1
					R2298	ERD16TJ391	390	1 1	
1		(COILS)			R230A	ERD16TJ152	1.5k	1	
L200A,	PQLQZL101K	Choke Coil	ΛS	4	R230B	ERD16TJ152	1.5k	1	
L200B,					R231A	Not Used	1	1	
L202A,					R231B R232A	Not Used ERD16TJ471	470	1	. 1
L202B L201A	PQLQZK100K	Choke Coil	ΔS	4	R232B	ERD16TJ471	470	1	
L201A,	Palazkiook	Crioke Coil	11 3	"	R233A	ERD16TJ122	1.2k	1 1	
L203A,					R233B	ERD16TJ122	1.2k	1	
L203B					R234A	Not Used			
L204A,	PQLQZK220K	Choke Coil		4	R234B	Not Used			
L204B,				ı	R235A	ERD16TJ471	470	1	
L205A,					R235B	ERD16TJ471	470	1 1	٠ .
L205B	•				R236A	ERD16TJ122	1.2k	1 !	
		(DEGICTORS)			R236B	ERD16TJ122	1.2k 1M	1 1	
R200A	ERD16TJ151	(RESISTORS)	Δ	1 1	R237A R237B	ERD16TJ105 ERD16TJ105	1M		
R200B	ERD16TJ151	150	Δ	1	R239A	ERD16TJ102			
R201A	ERDS1TJ223	22k	<u> </u>		R239B	ERD16TJ102	1k /1k	· .	
R201B	ERDS1TJ223	22k		1 i 1	R240A	Not Used		77	
R202A	ERDS2TJ102	1k	<u> </u>	1 1	R240B	Not Used	•	1	
R202B	ERDS2TJ102	1k	<u> </u>	1	R241A	Not Used			
R203A	ERD16TJ5R6	5.6	$\overline{\mathbb{A}}$	1 1	R241B	Not Used			
R203B	ERD16TJ5R6	5.6	\triangle	1 1	R242A	Not Used			
R204A	ERD16TJ822	8.2k	A		R242B	Not Used	4.70	Ι.	
R204B	ERD16TJ822	8.2k	☆	1 1	R243 R244	ERD16TJ472 Not Used	4.7k	1	'
R205A R205B	ERD25TJ330 ERD25TJ330	33 33	<u> </u>	1 1	R245A	ERD16TJ105	1M	1	1
R206A	ERD16TJ473	47k	<u> </u>		R245B	ERD16TJ105	1M	1	
R206B	ERD16TJ473	47k		li	R246	ERD16TJ103	10k	1	
R207A	ERD16TJ472	4.7k		1	R247,	ERD16TJ223	22k	4	4
R207B	ERD16TJ472	4.7k		1	R248,			I	
R208A	ERD16TJ473	47k		1 1	R249,			l	
R208B	ERD16TJ473	47k		1	R250			1	
R209A	Not Used				R251	ERD16TJ101	100	1	
R209B	Not Used	1 041		,	R252	ERD16TJ105	1M	1 4	
R210A,	ER016CKF1211	1.21k		4	R253A R253B,	ERD16TJ103	10k	4	•
R210B, R211A,	1				R253B,				
R211B		}			R255				
R212A,	ER016CKF1003	100k		4	R256	ERD16TJ223	22k	1	1
R212B,					R257	ERD16TJ223	22k	1	l
R213A,	1				R258	ERD16TJ102	1k	1	ı
R213B,					R259	Not Used	1	1	
R214A	Not Used				R260	ERD25TJ470	47	1	
R214B	Not Used	Land		,	R261	ERD16TJ184	180k	1	1
R215A,	ER016CKF1003	100k		4				1	
R215B,							(CAPACITORS)		
R216A, R216B					C200A	ECQE1104KN	lo1 Δ	<u> 1</u>	1
R217A	Not Used				C200A	ECCETIO4KN	Δ	<u> </u>	
R217B	Not Used				C201A	ECQE2474KF	0.47	<u>^</u>	
R218A	ER016CKF2613	261k		1	C201B	ECQE2474KF	0.47	1 1	
R218B	ER016CKF2613	261k		i	C202A,	ECEA1HU220		<u>r</u> 4	4
R219A	ERD16TJ102	1k		1	C202B,	1	•		
R219B	ERD16TJ102	1k		1	C203A,	l'			
1					C203B	500/41/451/5		1.	4
L	1	<u> 1 </u>		L	C204A	ECQV1H104JZ	0.1	1	1

	Part No.	Value, Part Name & Description	on	Pcs	Ref. No.	Part
C204B	ECQV1H104JZ	0.1				
C204B	ECEA1HU220	22		1	ZNDEG	N1-4 1 1
C205A	I	22	4	1	ZNR50	Not Used
	ECEA1HU220		Δ	1		
C206A	ECKD1H102JA	0.001		1		
C2068	ECKD1H102JA	0.001		1	 	
C207A,	ECFD1E683MD	0.068		4	R50	ERD16TJ8
C207B,	i				R51	ERD16TJ1
C208A,					R52	PQRD1VJ1
C208B		_			R53	ERDS1TJ1
C209A,	ECCD1H560JC	56P		4	R54,55	ERDS1TJ1
C209B,					R56	ERDS1TJ1
C210A,					R57	ERD16TJ1
C210B	İ	1			R58	PQRD1VJ1
C211A	ECFD1E333KD	0.033		1	R59	ERD16TJ1
C211B	ECFD1E333KD	0.033		1	R60	ERD16TJ1
C212A	Not Used	•			R61	ERDS1TJ1
C212B	Not Used	1			R62	ERD16TJ5
C213A	ECFD1E183KD	0.018		1	R63	ERD16TJ8
C213B	ECFD1E183KD	0.018		1	R64	ERD16TJ2
C214A	Not Used	i				
C214B	Not Used		-			
C215A	ECFD1E183KD	0.018		1		
C215B	ECFD1E183KD	0.018	1	1	C50	ECET35S1
C216	Not Used	1		· '	C51	Not Used
C217	ECKD1H223MD	0.022		1	C52	EECWOHS
C218	Not Used	1		l '	C53	ECEA1AU
C219,	ECKD1H223MD	0.022		з		ECKD1H1
C219,	LONDINEZSIND	10.022		l ³	C54	
C220,	1	1		1	C55	ECEA1VU
	CONDAI MAGNED	0.04				
C222	ECKD1H103KB	0.01		1	I I .	
C223	Not Used					
C224	Not Used			l	CN17	POJP5D30
C225A	ECKDKC222KB	0.0022	Æ.	1	CN18	PCJP6D30
C225B	ECKDKC222KB	0.0022	Δ	1	CN19	POJP10D3
C226	ECEA1EU101	100		1 1	CN50	PQJP8D30
C227	Not Used			l	CN51	PCJP4D30
C228,	ECEA1EU470	47	S	2		
C229				Į.		
C230	ECEA1EU101	100		1		
C231	ECEA1CSS102	1000		1 .	1	
C232-	Not Used			l	1	
C237						·
C238A	ECKD1H103KB	0.01		1		
C238B	ECKD1H103KB	0.01		1	PCB8	PQLP005
C239	ECEA1HU100	10		1		
C240A	ECKDKC222KB	0.0022		1	l I	l
C240B	ECKDKC222KB	0.0022		1		l
J		1		l '	IC101	PQVIH166
	1			l	IC101	Not Used
	1	(OTHERS)		1	IC102	PQVIL543
1	PQDF996Z	Shaft		,	1	
2	PQUB11Z		٠	2	IC202,	POVIRSM
_	I KODITE	Latch		2	IC203, IC204	
	Not Head			Į		
3	Not Used	Cannostar on		_		A N 10 00 0 0
3 CNB	PQJP8S30Z	Connector, 8P		1	IC205	AN6562
3 CNB CNC	PQJP8S30Z PQJP45S30Z	Connector, 45P	_	1		AN6562 PQVIL543
3 CNB	PQJP8S30Z		⚠.	ı	IC205	
3 CNB CNC	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z	Connector, 45P Jack, Telephone	҈Ѧ	1	IC205	
3 CNB CNC	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z	Connector, 45P	<u> Å</u>	1	IC205 IC206	PQVIL543
3 CNB CNC MJ1,2	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z POWER BO	Connector, 45P Jack, Telephone ARD PARTS	▲.	1 2	IC205 IC206 Q101	PQVIL543 2SK800
3 CNB CNC	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z	Connector, 45P Jack, Telephone	A	1	IC205 IC206 Q101 Q102	PQVIL543 2SK800 2SA1015
3 CNB CNC MJ1,2	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z POWER BO	Connector, 45P Jack, Telephone ARD PARTS	҈҅	1 2	IC205 IC206 Q101	PQVIL543 2SK800
3 CNB CNC MJ1,2	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z POWER BO	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA)	A	1 2	IC205 IC206 Q101 Q102 Q103 Q104	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815
3 CNB CNC MJ1,2 PCB7	POJP8S30Z POJP45S30Z POJJ1TA11Z POWER BOJ POWP7T123210	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Ass'y (NLA) (TRANSISTORS)	Æ.	1 2	IC205 IC206 Q101 Q102 Q103 Q104 Q105	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815 Not Used
3 CNB CNC MJ1,2 PCB7	POJP8S30Z POJP45S30Z POJJ1TA11Z POWER BO POWP7T123210 2SC2673	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si)	҈	1 1	IC205 IC206 Q101 Q102 Q103 Q104 Q105 Q201	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015
3 CNB CNC MJ1,2 PCB7	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z POWER BO. PQWP7T123210 2SC2673 2SB1015	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Ass'y (NLA) (TRANSISTORS)	A	1 2	IC205 IC206 Q101 Q102 Q103 Q104 Q105	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815 Not Used
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52	POJP8S30Z POJP45S30Z POJJ1TA11Z POWER BO POWP7T123210 2SC2673	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si)	Æ	1 1	IC205 IC206 Q101 Q102 Q103 Q104 Q105 Q201	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z POWER BO. PQWP7T123210 2SC2673 2SB1015	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si)	A	1 1 1 1	C101 Q101 Q102 Q103 Q104 Q105 Q201 Q202	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52	POJP8S30Z POJP45S30Z POJJ1TA11Z POWER BO POWP7T123210 2SC2673 2SB1015 2SA881	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si)	<u> </u>	1 1 1 1 1	Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52	POJP8S30Z POJP45S30Z POJJ1TA11Z POWER BO POWP7T123210 2SC2673 2SB1015 2SA881	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si)	A	1 1 1 1 1	Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204	2SK800 2SA1015 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52	POJP8S30Z POJP45S30Z POJJ1TA11Z POWER BO POWP7T123210 2SC2673 2SB1015 2SA881	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si)	A	1 1 1 1 1	IC205 IC206 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205 Q206	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52 Q53	POJP8S30Z POJP45S30Z POJJ1TA11Z POWER BO. POWP7T123210 2SC2673 2SB1015 2SA881 2SD1406	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Ass'y (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) (DIODES)	A	1 1 1 1 1 1	C101 C102 C103 C104 C104 C105 C201 C202 C203 C204 C205 C206 C207	PQVIL543 2SK800 2SA1015 2SA 1015 2SC1815 Not Used 2SA 1015 2SA 1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52 Q53	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z POWER BO. PQWP7T123210 2SC2673 2SB1015 2SA881 2SD1406	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) (DIODES) Diode (Si)	A	1 1 1 1 1 1 2	Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020 2SC3568
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52 Q53 D50,51 D52,53,	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z POWER BO. PQWP7T123210 2SC2673 2SB1015 2SA881 2SD1406	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Ass'y (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) (DIODES)	A	1 1 1 1 1 1	IC205 IC206 IC206 Q101 Q102 Q103 Q104 Q205 Q203 Q204 Q205 Q206 Q207 Q208 Q209	PQVIL543 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020 2SC3568 Not Used
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52 Q53 D50,51 D52,53,	PQJP8S30Z PQJP45S30Z PQJJTA11Z POWER BO PQWP7T123210 2SC2673 2SB1015 2SA881 2SD1406 PQVDS3V10LF 1SS131	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) OlioDES) Diode (Si) Diode (Si)	<u>.</u>	1 1 1 1 1 1 2 3	IC205 IC206 IC206 Q101 Q102 Q103 Q104 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210	2SK800 2SA1015 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020 2SC3568 Not Used Not Used
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52 Q53 D50,51 D52,53, D54,56	PQJP8S30Z PQJP45S30Z PQJJ1TA11Z POWER BO 2SC2673 2SB1015 2SA881 2SD1406 PQVDS3V10LF 1SS131 PQVDS3V10LF	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) (DIODES) Diode (Si) Diode (Si)	A	1 1 1 1 1 1 2 3 2	IC205 IC206 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210 Q211	2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020 2SC3568 Not Used Not Used Not Used
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52 Q53 D50,51 D52,53, D55,56 D57,58	POVPS3V10LF 1SR35-200	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) (DIODES) Diode (Si) Diode (Si) Diode (Si) Diode (Si)		1 1 1 1 1 1 2 3 2 2 2	IC205 IC206 IC206 Q101 Q102 Q103 Q104 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210	2SK800 2SA1015 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020 2SC3568 Not Used Not Used
3 CNB CNC MJ1,2 PCB7 Q50 Q51 Q52 Q53 D50,51 D52,53, D54,55,56	POVPS3V10LF 1SR35-200	Connector, 45P Jack, Telephone ARD PARTS Power P.C. Board Assy (NLA) (TRANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) (DIODES) Diode (Si) Diode (Si)	A	1 1 1 1 1 1 2 3 2	IC205 IC206 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210 Q211	2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020 2SC3568 Not Used Not Used Not Used

Ref. No.	Part No.	Value, Part Name & Description	Pcs
		(VARISTOR)	
ZNR50	Not Used	(VANISTON)	
	1101 0300		
		(RESISTORS)	
R50	ERD16TJ823	82k	1
R51	ERD16TJ103	10k	1 1
R52	PQRD1VJ1R0		1 1
R53	ERDS1TJ181	180	1
R54,55	ERDS1TJ151	150	2
R56 R57	ERDS1TJ181 ERD16TJ103	180 10k	1
R58	PQRD1VJ1R0	1	1.
R59	ERD16TJ103	10k	1
R60	ERD16TJ104	100k	1
R61	ERDS1TJ101	100	1
R62	ERD16TJ562	5.6k	1 1
R63	ERD16TJ822	8.2k	1
R64	ERD16TJ272	2.7k	1
		·	
		(CAPACITORS)	
C50	ECET35S153SW	15000	1
C51	Not Used		
C52	EECW0HS105Z	1 S	1
C53	ECEA1AU222	2200	1
C54	ECKD1H102JA	0.01	1
C55	ECEA1VU101	100	1
1			
l		(OTHERS)	
CN17	PQJP5D30Z	Connector, 5P	1
CN18	POJP6D30Z	Connector, 6P	1
CN19	PQJP10D30Z	Connector, 10P	1
CN50	PQJP8D30Z	Connector,8P	1
CN51	PQJP4D30Z	Connector, 4P	1
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		1	
	·		
		POWER UNIT PARTS	
		All 🛧	-
PCB8	PQLP005Z	POWER UNIT PARTS All Power Unit (NLA)	1
PCB8	PQLP005Z	All 🛧	
PCB8	PQLP005Z	All △ Power Unit (NLA)	
		All A	1
IC101	PQVIH16664AD	All △ Power Unit (NLA)	
IC101 IC102	PQVIH16664AD Not Used	All A Power Unit (NLA) (ICs) IC .	1
IC101 IC102 IC201	PQVIH16664AD Not Used PQVIL5431	Power Unit (NLA)	1 1
IC101 IC102 IC201 IC202,	PQVIH16664AD Not Used	All A Power Unit (NLA) (ICs) IC .	1
IC101 IC102 IC201 IC202, IC203,	PQVIH16664AD Not Used PQVIL5431	Power Unit (NLA)	1 1
IC101 IC102 IC201 IC202,	PQVIH16664AD Not Used PQVIL5431	Power Unit (NLA)	1 1
IC101 IC102 IC201 IC202, IC203, IC204	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02	All A Power Unit (NLA) (ICs) IC IC	1 1 3
IC101 IC102 IC201 IC202, IC203, IC204 IC205	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562	All A Power Unit (NLA) (ICs) IC IC IC	1 1 3 3
IC101 IC102 IC201 IC202, IC203, IC204 IC205	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562	IC IC S	1 1 3 3
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562 PQVIL5431	All A Power Unit (NLA) (ICs) IC IC IC IC IC IC IC IC IC IC IC	1 1 3 3 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562 PQVIL5431	All A Power Unit (NLA) (ICs) IC IC IC IC IC IC ITANSISTORS) Transistor (Si)	1 1 3 3 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562 PQVIL5431	All A Power Unit (NLA) (ICs) IC IC IC IC IC ITANSISTORS) Transistor (Si) Transistor (Si)	1 1 3 3 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015	Power Unit (NLA)	1 1 3 3 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206	PQVIH16664AD Not Used POVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SC1815	All A Power Unit (NLA) (ICs) IC IC IC IC IC ITANSISTORS) Transistor (Si) Transistor (Si)	1 1 3 3 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206	PQVIH16664AD Not Used PCVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used	Power Unit (NLA)	1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015	All A Power Unit (NLA) (ICs) IC IC IC IC IC IC ITANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si)	1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1015	Power Unit (NLA)	1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1015 2SA1020 2SA368	Power Unit (NLA) (ICs) IC IC IC IC IC IC ITANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si)	1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204	PQVIH16664AD Not Used POVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1015 2SA1015 2SA1020 2SA368 2SC2750	Power Unit (NLA) (ICs) IC IC IC IC IC IC ITANSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si)	1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205	PQVIH16664AD Not Used PCVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SC1815 Not Used 2SA1015 2SC1815 Sot Used 2SA1020 2SC3568 2SC2750 2SB744	Power Unit (NLA)	1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205 Q206	PQVIH16664AD Not Used PCVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815	Power Unit (NLA) (ICs) IC IC IC IC IC IC IC ITANNSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si)	1 1 3 3 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 IC206 IC206 IC206 IC206 IC202 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205 Q206 Q207	PQVIH16664AD Not Used PCVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020	Power Unit (NLA) (ICs) IC IC IC IC IC IC IT IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 3 3 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 IC206 IC206 IC206 IC206 IC202 Q103 Q104 Q105 Q201 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020 2SC3568	Power Unit (NLA) (ICs) IC IC IC IC IC IC IC ITANNSISTORS) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si) Transistor (Si)	1 1 3 3 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209	PQVIH16664AD Not Used POVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020 2SC3568 Not Used	Power Unit (NLA) (ICs) IC IC IC IC IC IC IT IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 3 3 1 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 IC206 IC206 IC206 IC206 IC202 Q103 Q104 Q105 Q201 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208	PQVIH16664AD Not Used PQVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SA1020 2SC3568 2SC2750 2SB744 2SC1815 2SA1020 2SC3568	Power Unit (NLA) (ICs) IC IC IC IC IC IC IT IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 3 3 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC206 IC206 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q202 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210	PQVIH16664AD Not Used POVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SC1815 Not Used 2SA1015 2SC1815 Not Used 2SC2750 2SB744 2SC1815 2SC1815 2SC1815 2SC1815 Not Used Not Used Not Used	Power Unit (NLA) (ICs) IC IC IC IC IC IC IT IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 3 3 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q203 Q204 Q205 Q206 Q207 Q208 Q209 Q210 Q210 Q211	PQVIH16664AD Not Used POVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SC3568 2SC2750 2SB744 2SC1815 2SC1815 2SC1815 2SC1815 Not Used Not Used Not Used Not Used Not Used	Power Unit (NLA) (ICs) IC IC IC IC IC IC IT IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 3 3 1 1 1 1 1 1 1 1
IC101 IC102 IC201 IC202, IC203, IC204 IC205 IC206 IC206 IC206 Q101 Q102 Q103 Q104 Q105 Q201 Q203 Q204 Q205 Q206 Q207 Q208 Q207 Q208 Q209 Q210 Q211	PQVIH16664AD Not Used POVIL5431 PQVIIR3M02 AN6562 PQVIL5431 2SK800 2SA1015 2SA1015 2SC1815 Not Used 2SA1015 2SC3568 2SC2750 2SB744 2SC1815 2SC1815 2SC1815 2SC1815 Not Used Not Used Not Used Not Used Not Used	Power Unit (NLA) (ICs) IC IC IC IC IC IC IT IC IC IC IC IC IC IC IC IC IC IC IC IC	1 1 3 3 1 1 1 1 1 1 1 1

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Ref. No.	Part No.	Part Name and Description	Pcs	Ref. No.	Part No.	Value	Pcs
_		(DIODES)		TH101	ERTD5FFL5R0P	Thermistor	1
D101	PQVDD5SB60	Diode (Si)	1	TH102	ERTD5FFL5R0P	Thermistor	1
D102	PQVD10DF6	Diode (Si)	1	1 1			
D103	PQVD10DF6	Diode (Si)	1	11.		(CAPACITORS)	
D104	PQVDERA22-02	Diode (Si)	1	C101	ECQU1A224MH	0.22	1
D105	MA4100	Diode (Si)	1	C102	ECKDKC472KB	4700P	1
D106	1SS131	Diode (Si)	1	C103	ECKDKC222KB	2200P	1
D107	Not Used	L		C104	ECKDKC222KB	2200P	1
D108	POVDRD18FB	Diode (Si)	1	C105	ECOS2DG102Y	1000	1
D109	POVDRD20JSB	Diode (Si)	. 1	C106	ECQE6103KF	0.01	1
D110	Not Used		. i	C107	ECKD3A471KBL	470P	1 1
D111	Not Used	District (C)	٦,	C108	ECEA1HGA100	10	1 1
D201 D202	PQVDC25P20F	Diode (Si)	1 1	C109	ECQV1H104JZ	0.1	1 1
	PQVD11ES2	Diode (Si)	1 1	C110	ECQM1H153JV	0.015	1 1
D203 D204	PQVDF10P04Q	Diode (Si)	, 1	C111	ECQM1H152JV	0.0015	1 1
	POVDRD6.2ESB	Diode (Si)	1 '	C112	ECEA1HGA100	10	1 1
D205	PQVD11ES2	Diode (Si)	1 1	C113	ECEA1HGA100	10	1 1
D206	1SS92	Di- 1- (0)	1 1	C114	Not Used		1
D207	PQVDF10P20F	Diode (Si)	1	C115	Not Used		
D208	PQVDRD18JSB	Diode (Si)	1	C116	Not Used	•	
D209	PQVD11ES2	Diode (Si)	1 1	C117	Not Used		
D210	PQVDF10P10Q	Diode (Si)	1	C118	Not Used		
D211	PQVDRD13JSB	Diode (Si)	. 1	C119	Not Used	i ·	
D212	Not Used		1	C120	Not Used	I	
D213	Not Used	ì	1	C121	ECKDKC472KB	4700P	1
				C122	Not Used	.	
			1	C123	Not Used	•	
		(PHOTO ELECTRIC TRANSDUCERS	S)	C124	ECKDKC472KB	4700P	1
PC101,	PQVITLP521	Photo Coupler	1]			
PC102,	Not Used		١ ا	C200	Not Used		
PC201	PQVITLP521	Photo Coupler	1 1	C201	ECKD3A102KBN	1000P	1
				C202	ECKD3A471KBL	470P	1
			1	C203	ECEA1EG332S	3300	1
	+	(THYRISTOR)		C204	ECEA1HGA010	· 11	1
SCR201	PQVDAC12DSM	Thyristor *	1	C205	ECEA1EG332S	3300	1
				C206	ECQM1H104JV	0.1	1
			- [C207	ECEA1HGA010	· 11	1
		(VARISTOR)	1	C208	ECEA1HGA100	10	1 1
SA103	ERZC14DK271U	Varister	1 1	C209	ECQM1H473JV	0.047	l i
				G210	ECQM1H153JV	0.015	1
				C211	ECQM1H102JV	0.001	1
		(COILS & TRANSFORMERS)		C212	ECEA1AGA222	2200	Li
L101	PQLE75	Choke Coil	1 1	C213	ECQM1H104JV	0.1	Li
L102	PQLE76	Choke Coil	1 1	C214	ECEA1AGA222	2200	1 1
T103	ETQ16K11AY	Choke Coil	1 1	C215	ECEA1HGA100	10	1 1
L201	PQLE74	Choke Coil	1	C216	ECQM1H473JV	0.047	1 1
L202	PQLE70	Choke Coil	1	C217	ECQM1H104JV	0.1	1
L203	ELC08D069	Choke Coil	1 1	C218	ECEA1HGA4R7	4.7	
L204	PQLE74	Choke Coil	1 1	C219	ECQM1H104JV	0.1	
L205	PQLE71	Choke Coil	l i	C220	ECQM1H104JV	0.1	
L206	POLE72	Choke Coil	1 1	C221	ECQM1H102JV	0.001	1 1
L207	ELC08D069	Choke Coil	1 1	C222	ECEA1EGA222	2200	
L208	PQLE73	Choke Coil	1 1	C223	ECEA1EGA222	2200	l i
T101	ETS35K420A	Switching Transformer *	1.1	C224	ECEA1EGA222	2200	1
T201	ETH16K33AY	Drive Transformer		C225	ECEA1HGA010	1	1 1
		and transferred	1 '	C225	ECEATHGATIO	10	
ı		1	1		ECCATHGATOO ECQM1H473JV	0.047	1 1
		(VADIAR) E PERIOTORE	1	C227	1		1 1
VD101	Nottlead	(VARIABLE RESISTORS)	.	C228	ECQM1H102JV	0.001	1 !
VR101	Not Used	Comit Florida Florida		C229	ECEA1EGA222	2200	!
VR201	EVM38GA00B53	Semi-Fixed, 5kΩ (B) S	1 1	C230	ECQM1H104JV	0.1	1 1
VR202	EVM38GA00B13	Semi-Fixed, 1kΩ (B) S		C231	ECEA1EGA222	2200	1
VR203	PQN80A00B13M	Semi-Fixed, 1kΩ (B)		C232	ECEA1HGA100	10	1 1
VR204	PQN80A00B23M	Semi-Fixed, 2kΩ (B)	1 1	C233	ECQE2474KF	0.47	1
			1	C234	ECKDKC222KB	2200P	1
	1	1	1	C235	Not Used	1	1
	l	(OTHERS)	1	C240	ECQV1H105JZ	1	1
CR119	PQVDMGC4R3R2	Component Combination	1 .				
CR120	PQVDMGC4R3R2	Component Combination	1		j .	(RESISTORS)	1
SW101	EST15302T	Switch, Power	S 1	R103	PQRD2VJ473	47k	1
RL201	Not Used	İ	•	R104	PQRD2VJ104	100k	1
F101	XBA1C50NU100	Fuse, 5A, 125V	1	R105	ERDS1TJ220	22	1
	XBA1C100NU10	Fuse, 10A, 125V	1	R106	PQRD2VJ100	10	1
					ERD16TJ683	68k	1
F201	PQJS7R35Z	Connector, 7P	* [1	K10/	I E LIDIO 1000	LOOK	
F201 CN1		The state of the s	1	R107 R108		•	1
F201 CN1 CN2	PQJS7R35Z PQJS2L47Z	Connector, 2P	1	R108	ERD16TJ183	18k *	
F201 CN1	PQJS7R35Z	The state of the s	1			•	1

Ref. No	. Part No.	Value	Pcs	Ref. No.	Part No.	Value	Pcs
R112	ERD16TJ103	10k	1	R264	ERD16TJ470	47	1
R113	ERD16TJ392	3.9k	1	R265	Not Used	1 ^{7′} ⋅ 1	'
R114	ERD16TJ333	33k] i	R266	Not Used		
R115	ERD16TJ471	470	1	R267	Not Used		l i
R116	ERD16TJ103	10k	i	R268	Not Used	·	
R117	ERDS1TJ101	100	1	R269	Not Used		
R118	Not Used	•		R270	ERD16TJ153	15k	1
R119	Not Used	. •		R271	ERD16TJ102	1k	1
R120	Not Used	•		R272	ERD16TJ271	270	1
R121	Not Used	•		R273	Wire Lead	· ·	1
R122	Not Used	•		R274	ERD16TJ152	1.5k	1
R123	Not Used	1 :		R275	ERDS1TJ152	1.5k	1
R124	Not Used	1		R276	ERD16TJ104	100k	1
R201	ERG1ANJP220S	22	.	R277	ERD16TJ682	6.8k	1
R202	ERD1TJ100	10	1	R278	ERD16TJ102	1k	1
R203	ERD16TJ102	1k	1 1	R280	ERG2ANJ120	12	1
R204	ER016CKF2002	20k	1		1		
R205	ERD16TJ222	2.2k	1				
R206	ERD16TJ561	560				į l	
R207	ERD16TJ471	470	i		1]	-
R208	ERD16TJ102	1k	1				
R209	ERD16TJ223	22k	1				
R210	ERD16TJ104	100k	1				l
R211	ERD16TJ103	10k	1 1			<u> </u>	
R212	ERD16TJ103	10k	1 1			[ŀ
R213	ERD16TJ104	100k	1 1				
R214	ERD16TJ682	6.8k	1 1			1	
R215 R216	ERD16TJ103 ERD16TJ332	10k	1 1			l i	
R216	ERD16TJ680	3.3k 68	1 1				
R217	ERD1TJ102	1k	1 1				ŀ
R219	ERD16TJ100	10				Į l	
R220	ERD16TJ470	47					
R221	ERD16TJ102	1k	;				i
R222	PQRF2TLJR05	0.05	1				l
R223	ERD16TJ681	680	1 1			i l	
R224	ERD16TJ183	18k	1				
R225	ERD16TJ682	6.8k	1			l i	
R226	ERD16TJ562	5.6k	1				
R227	ERD16TJ330	33 .	1				l
R228	Not Used					['	
R229	Not Used Not Used					[
R230 R231	Not Used Not Used	1					l
R232	ERD16TJ103	10k	,			į l	l
R233	ERD16TJ103	10k	1			i i	
R234	ERD16TJ222	2.2k	1		I		
R235	Not Used		'				
R236	ERD16TJ104	100k	1]	
R237	ERD16TJ682	6.8k	1		}		
R238	ERD16TJ273	27k	1		ł		
R239	ERD16TJ103	10k	1				
R240	ERD16TJ183	18k	1		l		
R241	ERD1TJ102	1k	1				
R242	ERDS1TJ101	100	1				
R243	PQRD3TJ3R3	3.3	1				
R244 R245	ERDS1TJ150	15	1 1				
R246	ERD16TJ470 ERD16TJ102	47	1		l		l i
R246	ERD16TJ102 ERD16TJ821	1k 820	1		l .	·	ļ. I
R247	ERD16TJ104	100k	1		l	1	
R249	ERD16TJ103	10k	1		1		
R250	ERD16TJ103	10k			1		
R251	ERD16TJ104	100k			l		
R252	ERD16TJ682	6.8k	1		•		
R253	ERD16TJ103	10k	1		1		
R254	ERD16TJ680	68	1				
R255	ERD1TJ102	1k	1		1		
R256	ERD16TJ100	10	1		l	4	
R257	ERD16TJ470	47	1				1
R258	ERD16TJ332	3.3k	1			l ·	i
R259	PQRF2TLJR05	0.05	1				l
R260	ERD16TJ102	1k *	1				l
R261	ERD16TJ223	22k	1 1				l
R262	ERD16TJ103	10k	1 1				I
R263	ERD16TJ222	2.2k	1	L	L	<u> </u>	

Service Manual

EASA-PHONE

ELECTRONIC MODULAR SWITCHING SYSTEM

KX-T123210



SPECIFICATIONS\TEXHUYECKUE XAPAKTEPUCTUKU

NAME AND LOCATION\HAИMEHOBAHИЕ И РАСПОЛОЖЕНИЕ

CONNECTION\COEQUHEHUE

INSTALLATION\YCTAHOBKA

PROGRAMMING\ПРОГРАММИРОВАНИЕ

FOR SERVICE TECHNICIANS\ДЛЯ СЕРВИСНОГО ОБСЛУЖИВАНИЯ

DISASSEMBLY INSTRUCTIONS\METOДИКА РАЗБОРКИ

IC I/O DATA\ONUCAHUE MUKPOCXEM

BLOCK DIAGRAM\БЛОК-СХЕМА

SCHEMATIC DIAGRAMS\ПРИНЦИПИАЛЬНАЯ СХЕМА

IC BLOCK DIAGRAM\БЛОК-СХЕМА ИНТЕГРАЛЬНЫХ МИКРОСХЕМ

TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES\ЦОКОЛЕВКА ВЫВОДОВ

ИНТЕГРАЛЬНЫХ МИКРОСХЕМ, ТРАНЗИСТОРОВ И ДИОДОВ

ADJUSTMENTS\РЕГУЛИРОВКИ

EXTENSION BOARD CONNECTING METHOD\METOДИКА ПОДСОЕДИНЕНИЯ СЕРВИСНЫХ ПЛАТ

CABINET AND ELECTRICAL PARTS LOCATION\PACПОЛОЖЕНИЕ ЧАСТЕЙ КОРПУСА И ЭЛЕКТРИЧЕСКИХ ЧАСТЕЙ

ACCESSORIES AND PACKING MATERIALS\ДОПОЛНИТЕЛЬНЫЕ ПРИНАДЛЕЖНОСТИ И УПАКОВОЧНЫЕ МАТЕРИАЛЫ

REPLACEMENT PARTS LIST\CПИСОК ЗАПАСНЫХ ЧАСТЕЙ

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Panasonic

SPECIFICATIONS

General Description

1.			
	Capacity	Outsides(CO) Ma	ax 12
_	_	Stations Max	32
2.	Control Method·····	······Stored Program CP	U: 8 bits CPU
	•	Control ROI	1: 192 KB, Control BAM · 64KB
3.	Switching	······Space Division CM	OS Crosspoint Switch
4.	Power Supplies	Primary	AC 120V 60Hz
		Secondary	Station Supply Volt : 26V
		,	Circuit Volt: $+5V$, $+12V$, $-14V$, $-16V$, $\pm7V$
		Power Failure ■Ma	x 6 outsides assigned to stationspower
		fai	ure transfer
			stem operation for several hours by recommended
		hai	tery (car type batteries - consisting of two 12 VDC,
		16	amp / hour maximum rating).
5.	Dialing	··········· Outward	Dial Pulse 10PPS, 20PPS
		o di wara	Tone Dial
	_	Internal	
		memai	Dial Pulse 10PPS, 20PPS
		Mode Conversion	Tone Dial
6.	Intercom paths		DP-DTMF, DTMF-DP
7.	Outside (CO)-Outside (CO) pat	-	
8.	Connector	Outoides (CO)	NA adada a La La Contra da
J.			Modular Jack (RJ-11)
		Station	Amphenol Connector
		Paging Output	Pin Jack (RCA JACK)
		External Music Input	(
9.	EVT Connection	0.11	diameter)
Э.	EXT Connection	······Cable	1 pair wire (Standard Telephone)
			2 pair wire (KX-T123230/KX-T123220/
			KX-T123250/KX-T61630/KX-T61620/KX-T61631
			KX-T61650/KX-T30830/KX-T30820/
10	SMDR		KX-T30850)
11)	2MDH	1	DC 0000
. ў.	01-11- 14		RS-232C
· J.	Station Message	Output Equipment	Printer, Data Terminal
	Station Message Detail Recording		Printer, Data Terminal
[Station Message Detail Recording	Output Equipment	Printer, Data Terminal Data, Time, Ext. Number, CO Number,
	Station Message Detail Recording	Output Equipment	Printer, Data Terminal
	Station Message Detail Recording aracteristics	Output Equipment	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account
Cha	Station Message Detail Recording Aracteristics	Output Equipment Detail Recording	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code
Cha	Station Message Detail Recording	Output Equipment Detail RecordingKX-T123230/KX-T12	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/
Cha	Station Message Detail Recording Aracteristics	Output Equipment Detail Recording KX-T123230/KX-T12 KX-T61630/KX-T616	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/
Cha	Station Message Detail Recording Aracteristics	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms
Cha	Station Message Detail Recording Aracteristics	Output Equipment Detail Recording KX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set
Cha	Station Message Detail Recording	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms
Cha 1. 2.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set
Cha 1. 2. 3.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone15,000 ohms	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms
Cha 1. 2. 3.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone1 (KX-T123230, KX-T	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms
Cha 1. 2. 3.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station	Output Equipment Detail Recording	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850
Cha 1. 2. 3.	Station Message Detail Recording aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station Instruments per Line	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone Doorphone1 (KX-T123230, KX-T KX-T61620, KX-T616	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850
2. 3.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station Instruments per Line Ring Voltage	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone Doorphone1 (KX-T123230, KX-T KX-T61620, KX-T616 or Standard telephone 70 Vrms at 20 Hz den	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850 e) pends on Ringing Load
2. 3. 4. 5.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station Instruments per Line Primary Power	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone Doorphone1 (KX-T123230, KX-T KX-T61620, KX-T616 or Standard telephone70 Vrms at 20 Hz dep	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850 e) ends on Ringing Load maximum
2. 3. 4. 5. 6.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station Instruments per Line Primary Power Central Office Loop Limit	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone Doorphone1 (KX-T123230, KX-T KX-T61620, KX-T616 or Standard telephon T0 Vrms at 20 Hz dep	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850 e) ends on Ringing Load maximum
2. 3. 4. 5. 6. 7.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station Instruments per Line Primary Power Central Office Loop Limit Environmental Requirements	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone Doorphone15,000 ohms KX-T61620, KX-T616 or Standard telephone or Standard telephone T0 Vrms at 20 Hz dep120 Vac, 60 Hz, 1.4 A1600 ohms maximum0-40 C, 10%-90%	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850 e) ends on Ringing Load maximum
2. 3. 4. 5. 6. 7.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station Instruments per Line Primary Power Central Office Loop Limit	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone Doorphone15,000 ohms KX-T61620, KX-T616 or Standard telephone or Standard telephone T0 Vrms at 20 Hz dep120 Vac, 60 Hz, 1.4 A1600 ohms maximum0-40 C, 10%-90%	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850 e) ends on Ringing Load maximum
Cha 1. 2. 3. 4. 5. 6. 7. 8.	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station Instruments per Line Primary Power Central Office Loop Limit Environmental Requirements Hookswitch Flash Timing Range	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone Doorphone15,000 ohms KX-T61620, KX-T616 or Standard telephone or Standard telephone T0 Vrms at 20 Hz dep120 Vac, 60 Hz, 1.4 A1600 ohms maximum0-40 C, 10%-90%	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850 e) ends on Ringing Load maximum
Cha 1. 2. 3. 4. 5. 6. 7. 8. Din	Station Message Detail Recording Aracteristics Station Loop Limit Maximum Number of Station Instruments per Line Primary Power Central Office Loop Limit Environmental Requirements Hookswitch Flash Timing Range	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone Doorphone15,000 ohms WX-T61620, KX-T616 or Standard telephone T0 Vrms at 20 Hz dep120 Vac, 60 Hz, 1.4 A1600 ohms maximum0-40 C, 10%-90%204-1000 msec	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850 e) ends on Ringing Load maximum
2. 3. 4. 5. 6. 7. 8. Din	Station Message Detail Recording Aracteristics Station Loop Limit Minimum Leak Resistance Maximum Number of Station Instruments per Line Primary Power Central Office Loop Limit Environmental Requirements Hookswitch Flash Timing Range	Output Equipment Detail Recording WX-T123230/KX-T12 KX-T61630/KX-T616 KX-T30830/KX-T308 Standard Telephone Doorphone Doorphone15,000 ohms WX-T61620, KX-T616 or Standard telephone T20 Vac, 60 Hz, 1.4 A1600 ohms maximum0-40 C, 10%-90%204-1000 msec	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850 e) ends on Ringing Load maximum
Cha 1. 2. 3. 4. 5. 6. 7. 8. Din 1.	Station Message Detail Recording Aracteristics Station Loop Limit Maximum Number of Station Instruments per Line Primary Power Central Office Loop Limit Environmental Requirements Hookswitch Flash Timing Range	Output Equipment Detail Recording	Printer, Data Terminal Data, Time, Ext. Number, CO Number, Calling Number, Calling Time, Account Code 3220/KX-T123250/ 20/KX-T61650/KX-T61631/ 20/KX-T30850 40 ohms 600 ohms including set 20 ohms 123220, KX-T123250, KX-T61630, KX-T61631, 50, KX-T30830, KX-T30820, KX-T30850 e) ends on Ringing Load maximum x 198 (D) mm 1x7 13/16")

NAME AND LOCATION

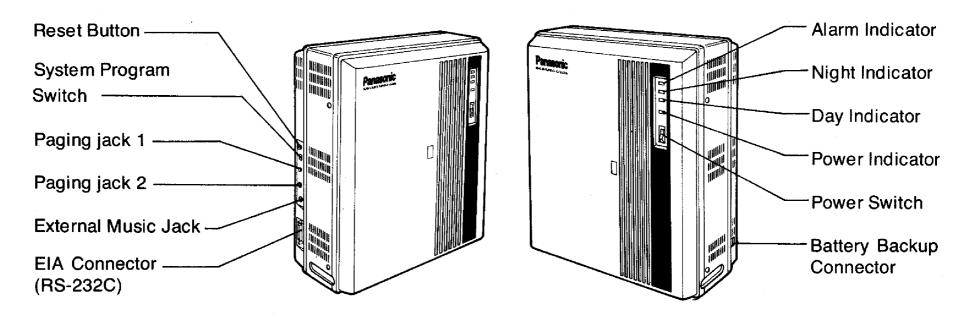


Fig. 3

CONNECTION

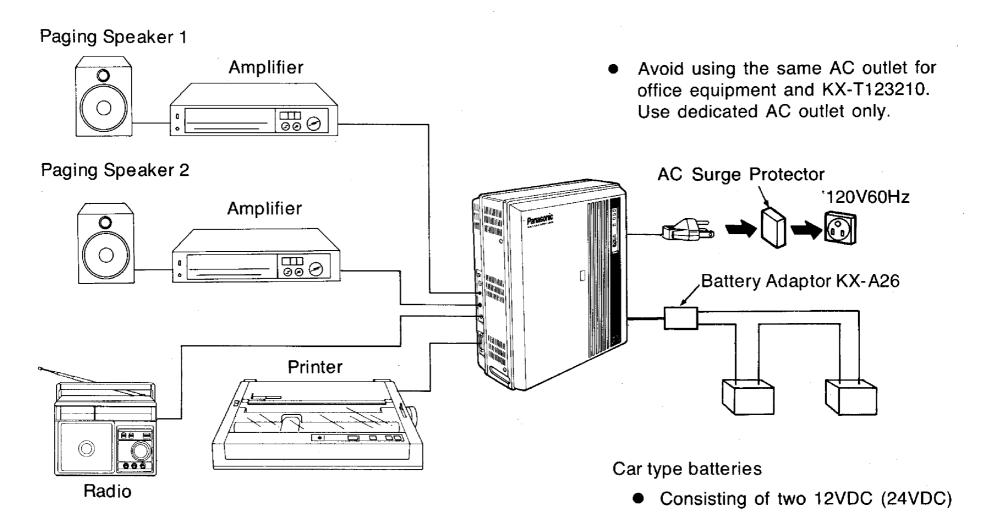


Fig. 4

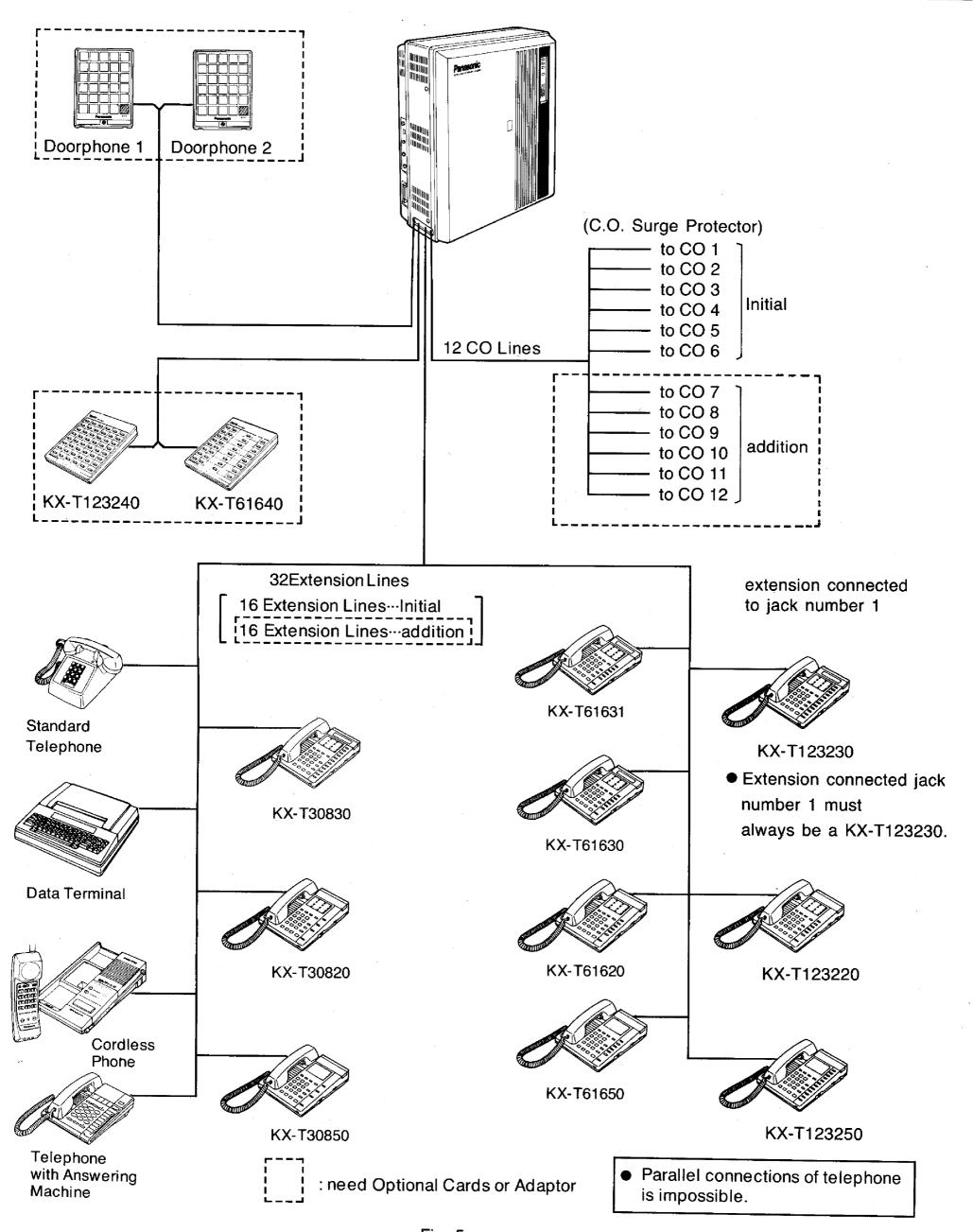
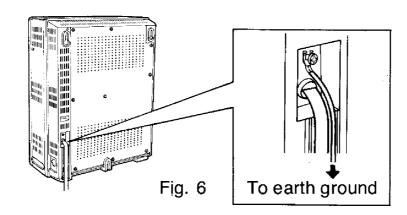


Fig. 5

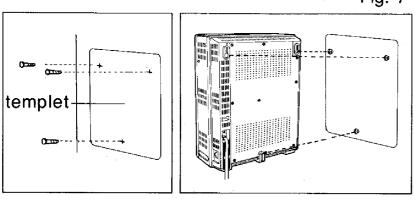
INSTALLATION

Frame Ground Connection



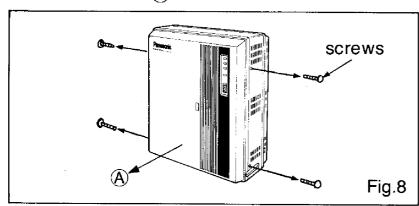
Wall Mounting

- 1. Place the templet (included) on the wall to mark the 3 screw positions.
- 2. Install the 3 screws into the wall.
- 3. Hook the unit on the screw heads. Fig. 7

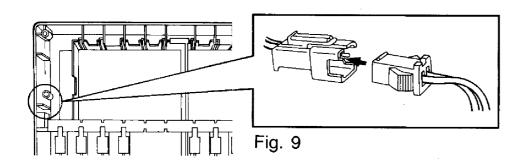


How to remove the front cover from unit

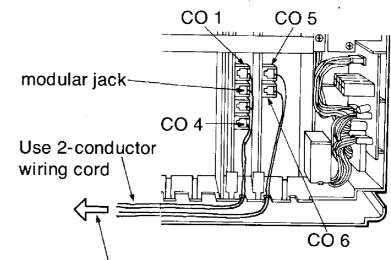
- 1. Unscrew the front cover of the unit. There are four screws.
- 2. Open the front cover in the direction of the arrow (A).



Rechargeable Battery Installation



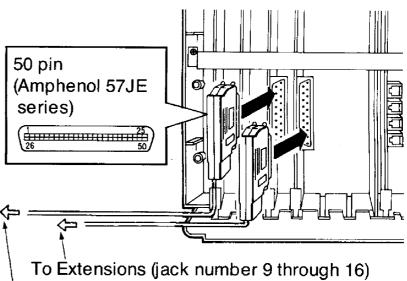
Central Office Line Connection (CO1 through 6)



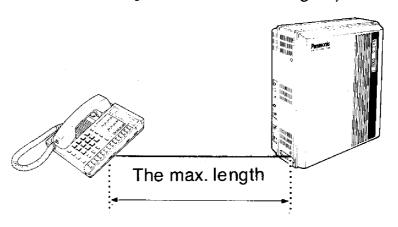
 To Terminal Board or Modular Jacks from the Central Office (CO).

Fig. 10

Extension Connection (Jack number 1 through 16)



To Extensions (jack number 1 through 8)



Proprietary Telephone

26 AWG: Under 460 feet

24 AWG: Under 750 feet 22 AWG: Under 1180 feet

Twisted cable

Standard Telephone

26 AWG: Under 2290 feet 24 AWG: Under 3700 feet 22 AWG: Under 5900 feet

Twisted cable

Fig. 11

Cable Pin Numbers to be connected

■ Connection of the Proprietary Telephone (4-conductor wiring is required for each extension.)

	<u> </u>	Т				
CONN. PIN	CABLE COLOR	CLIP NO.	LC-1		LC-2	
26 1 27 2 2 28 3	WHT-BLU BLU-WHT WHT-ORN ORN-WHT WHT-GRN GRN-WHT	1 2 3 4 5 6	JACK NO.1	T R D1 D2	JACK NO.9	T R D1 D2
29 4 30 5 31 6	WHT-BRN BRN-WHT WHT-SLT SLT-WHT RED-BLU BLU-RED	7 8 9 10 11 12	JACK NO.2	R D1 D2	JACK NO.10	R D1 D2
32 7 33 8 34 9	RED-ORN ORN-RED RED-GRN GRN-RED RED-BRN BRN-RED	13 14 15 16 17 18	JACK NO.3	R D1 D2	JACK NO.11	R D1 D2
35 10 36 11 37 12	RED-SLT SLT-RED BLK-BLU BLU-BLK BLK-ORN ORN-BLK	19 20 21 22 23 24	JACK NO.4	T R D1 D2	JACK NO.12	R D1 D2
38 13 39 14 40 15	BLK-GRN GRN-BLK BLK-BRN BRN-BLK BLK-SLT SLT-BLK	25 26 27 28 29 30	JACK NO.5	R D1 D2	JACK NO.13	T R D1 D2
41 16 42 17 43 18	YEL-BLU BLU-YEL YEL-ORN ORN-YEL YEL-GRN GRN-YEL	31 32 33 34 35 36	JACK NO.6	T R D1 D2	JACK NO.14	T R D1 D2
44 19 45 20 46 21	YEL-BRN BRN-YEL YEL-SLT SLT-YEL VIO-BLU BLU-VIO	37 38 39 40 41 42	JACK NO.7	T R D1 D2	JACK NO.15	T R D1 D2
47 22 48 23 49 24	VIO-ORN ORN-VIO VIO-GRN GRN-VIO VIO-BRN BRN-VIO VIO-SLT	43 44 45 46 47 48	JACK NO.8	T R D1 D2	JACK NO.16	T R D1 D2
25	SLT-VIO	50				

T:Tip

D1: Data 1

R: Ring

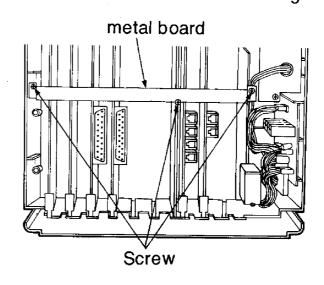
only.

D2: Data 2

Connection of a Standard Telephone (2-conductor wiring is required for each extension.)
Connect the pin number of "T" and "R"

Optional Cards Installation

- 1. To protect the printed circuit board from static electricity, first discharge any body static by touching the metal board.
- 2. Loosen the screws to remove the metal board.
- 3. The location of the optional cards for the KX-T123210 is shown in the following.



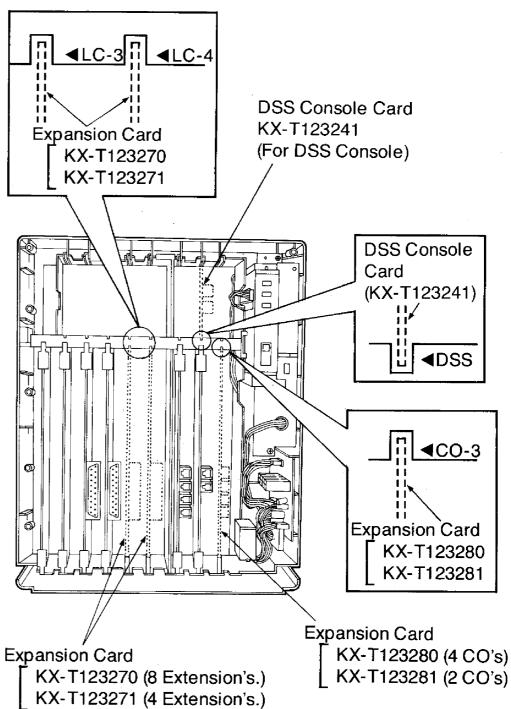
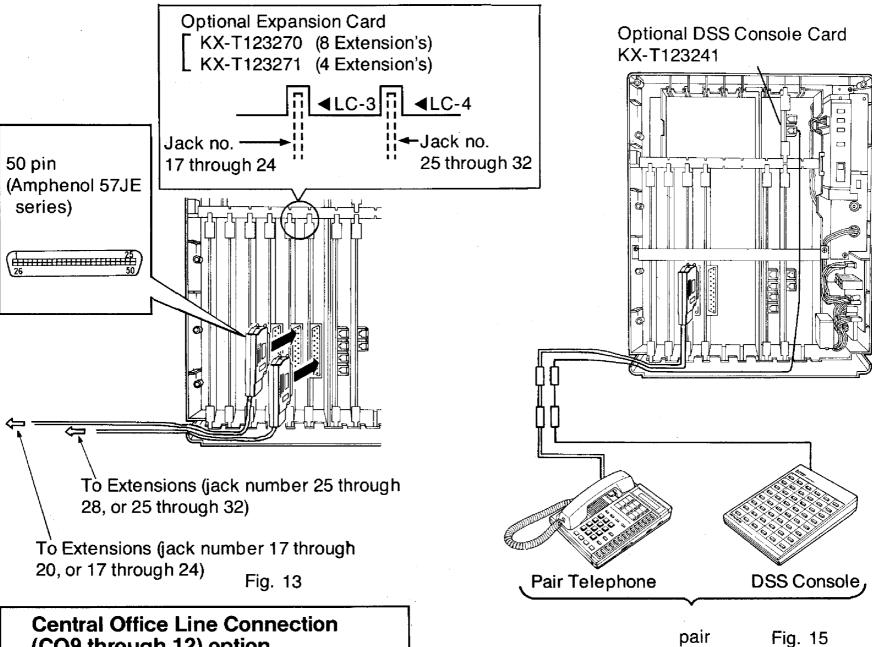


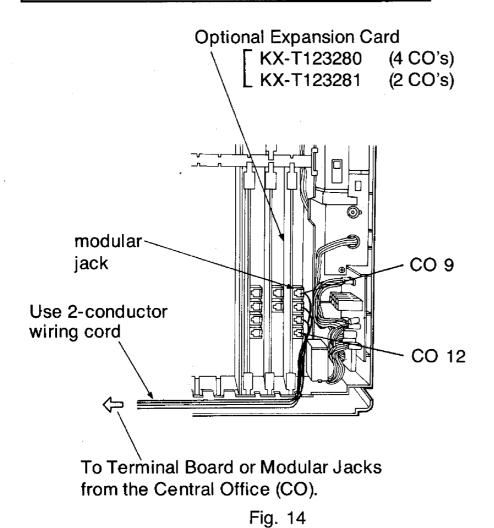
Fig. 12

Extension Connection (Jack number 17 through 32) option

Optional DSS Console Connection (KX-T123240 / KX-T61640)



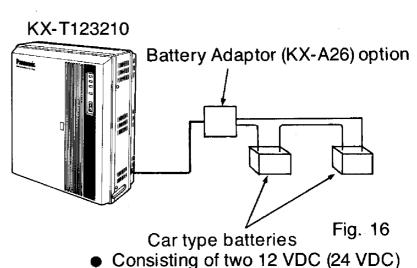
(CO9 through 12) option



●The DSS Console (KX-T123240 or KX-T61640) needs a paired Telephone (EMSS Proprietary Telephone) for proper operation, because the DSS console cannot work by itself.

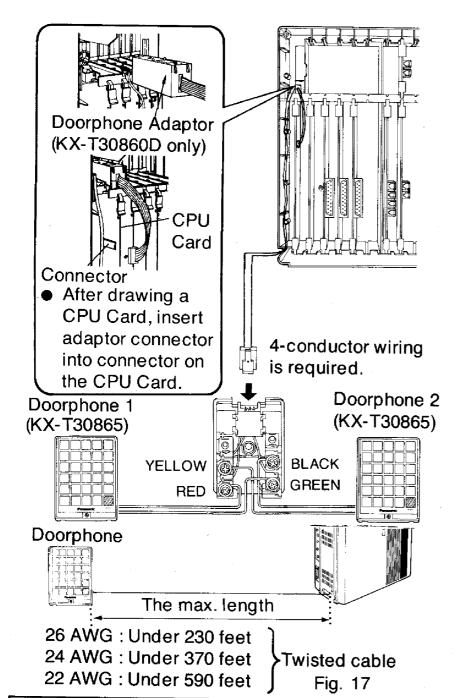
 When using the DSS Console, program must be done.

Battery Connection

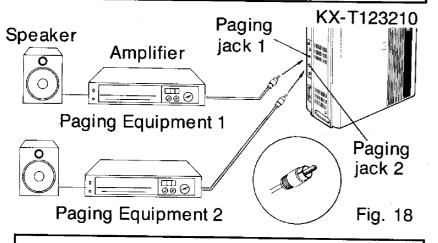


- 16 amp / hour maximum rating

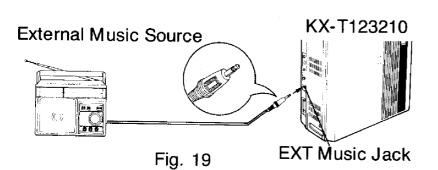
Optional Doorphone Connection



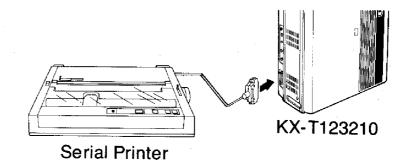
Paging Equipment



External Music Source



Printer Connection



Serial Interface Fig. 20 (RS-232C)

 Cables must be shielded and the maximum length is 6.5 feet.

Connection Chart:

KX-112	3210 RS	5-2320	2	Printe	er RS-23	32C
Circuit Type (EIA)	Signal Name	Pin No.		Pin No.	Signal Name	Circuit Type (EIA)
AA BA	FG TXD	1 2	-	1	FG RXD	AA BB
BB CB	RXD CTS	ვ 5	↓	2	TXD	ВА
CC AB	DSR SG	4,6 7	4	20 7	DTR SG	CD AB
CD	DTR	20	1	5 6 8	CTS DSR DCD	CB CC CF

Communication parameters

If the Panasonic printer which is used has a (KX-P11D or KX-P17) board and is connected to the KX-T123210, set the communication parameters the following.

	_	KX-	P11D	кх	-P17
	KX-T123210		Setting	DIP Switch	Setting
Word length	7bit (default)	SW1-1	ON	SW1-4	<u> </u>
Parity	Program to "EVEN"	SW1-2	ON	SW1-5	OFF
		SW1-3	ON	SW1-6	OFF
Baud Rate	1200B (default)	SW1-5 SW1-6 SW1-7 SW1-8		SW1-1 SW1-2 SW1-3	OFF
Protocol	XON / XOFF mode only	SW2-8	OFF	SW1-8	ON

PROGRAMMING

To activate this system, the requirements from telephone company and the customer must be programmed once the Power Switch has been turned on.

Programming Instructions

- 1. At extension connected to jack number 01: All system programming changes (example: system clear, toll restriction, system speed dialing entry...) are done through extension connected to jack number 01.
 - Extension connected to jack number 01 must always be a Panasonic model, KX-T123230.
- 2. System Program Switch setting: The System Program Switch located on the KX-T123210 must be set to the "PITS" (Proprietary Integrated Telephone System) position while making program changes. After all programming changes are completed, return the program switch to the "SET" position.
- 3. Overlay:

This overlay is used for programming the system and the program function names are inscribed on this card.

4. Before system programming, operate the system clear to set to the default data of the program.

System Clear:

- Set the System Program Switch of the KX-T123210 to the "PITS" position.
- 1. Dial (99). "System Clear" will be displayed.
- 2. Press the NEXT button.
- 3. Repeat pressing the SELECT button until the "Menu: All Para" is displayed.

- 4. Press the MEMORY button to clear system.
- 5. To return to the initial program mode, press the END button.
- The following parameters are preset as the default data.

System parameters
CO parameters
Extension parameters
DSS parameters
Speed call

When the System Program Switch on the KX-T123210 is set to the "PITS" position, the operation of the KX-T123230 connected to jack number 01 will change as follows.

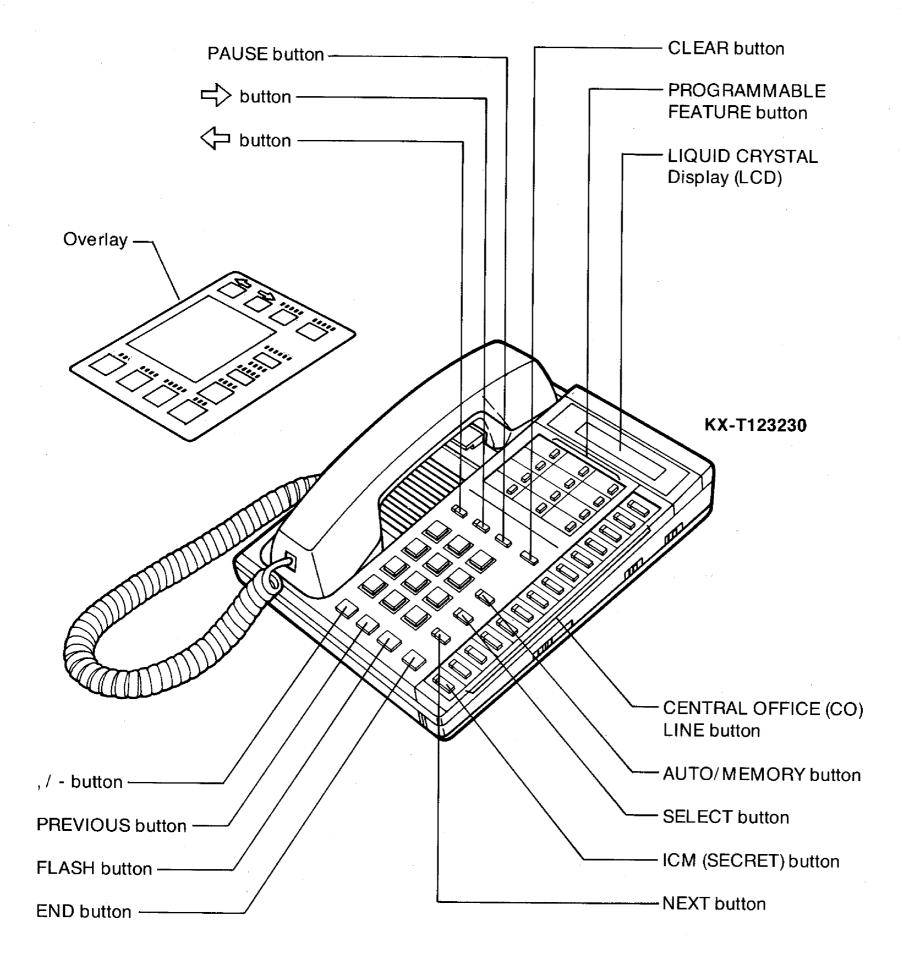


Fig. 21

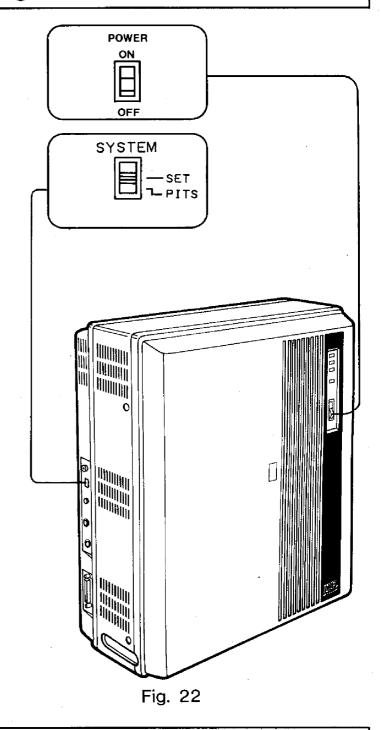
Example of Programming

- 1. Turn the Power Switch to ON.
- 2. Set the System Program Switch to "PITS" position.

 The LCD on the KX-T123230 will show "SYS-PGM NO ?→".
 - Be sure the handset of the extension connected to jack number
 01 is in the cradle and the speakerphone button off.
- **3.** To program automatic line access number 9 and the phone number 987-654-3210 into speed access code 00.

	KX-T123230 at extension conr (Extension connected to jack KX-T123230.)	•		
1.	Dial (01) or press the Auto button.	Display Speed Dialing		
2.	Press the NEXT button.	Speed NO? →		
3.	Dial (00) or press the NEXT button.	 If nothing is stored in access code "00", 00: Not Stored If already stored the automatic line access number 9 and the phone number 123-456-7890, 00: 9-123-456-789 		
4.	 Dial "9". Press " – " button. Dial "987". Press " – " button. Dial "654". Press " – " button. Dial "3210". 	00: -987-654-3210		
5.	Press the MEMORY button.	00: -987-654-3210		
6.	button. To program a desired according to the contract of the	To program the next access code, press the NEXT button. To program a desired access code, press the SELECT button and dial speed access code.		
7.	Repeat steps 4 to 6.			
8.	To return to the initial program mode, press the END button.	SYS-PGM NO ?→		

- 4. Return the System Program Switch to "SET" position.
 - To make program change, start from the beginning.



While programming if a mistake is made,

- 1. Press the "END" button.
- 2. Start programming procedure from the beginning.
- You will hear a beep after pressing the MEMORY button.
- The MEMORY indicator light will go on when the MEMORY button is pressed, and then the Indicator light will go out when the NEXT or PREV button is pressed.

■ PROGRAMMING TABLE

System Feature

	T				uu ug
TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	P. FOR DETAILS	AGE PROGRAI S TABLE
Date and Time Setting	00	NEXT AB SELECT SELECT FOR HOUR HOUR HOUR HOUR HOUR HOUR HOUR HO		3-4	
System Speed Dialing Entry	01 or AUTO	NEXT AB CD phone number MEMORY END 9: automatic line access number 8: 1 through 8: access number of Trunk Group Speed access code (00 through 99)	Nothing is stored	3-5	7-1
Extension Number Assignment	02	NEXT NEXT CDE MEMORY END dial the extension number (100 through 199)until the desired jack number appears	101 : jack number 01 102 : jack number 02 : : 131 : jack number 31 132 : jack number 32	3-8	7-3
Operator Assignment	03	NEXT NEXT AB MEMORY END dial the jack number which is set operator until the desired operator number appears	Nothing is stored	3-9	7-3
Paired Telephone Assignment for DSS Console	04	NEXT NEXT AB MEMORY NEXT CD MEMORY END jack number paired with console 2 jack number paired with console 1	jack number 01 console 1 jack number 02 console 2	3-10	7-3
Automatic CO Hold Using DSS Button	0.5	NEXT SELECT MEMORY END :With Transfer / Without Transfer	With Transfer	3-11	7-3
Day/Night Service Mode Switching of	06	NEXT SELECT MEMORY END :Manual / Automatic	Manual	3-12	7-4
Service Mode Starting Time	0.7	NEXT AB SCD SELECT MEMORY NEXT minute AM / PM starting time for day service (hour) EF SELECT MEMORY END minute AM / PM starting time for night service (hour)	Day Service : 9:00AM Night Service : 5:00PM	3-13	7-4
Call Hunting Setting	0.8	NEXT NEXT SELECT MEMORY END Disable / Enable until the desired extension group number appears	Disable : all 8 extension groups	3-15	7-4
Hunting Type	09	NEXT NEXT SELECT MEMORY ENDTerminate / Circular until the desired extension group number appears	Terminate : all 8 extension groups	3-16	7-4

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	FOR	GE PROGRAM TABLE
Toll Restriction Area Type Selection	10	NEXT SELECT MEMORY END : Type A / Type B / Type C	Туре А	3-18	7-4
CO Operator Call-Boundary Class	11	NEXT A MEMORY END :dial the boundary class number (1 through 8)	Class 1	3-19	7-4
Toll Restriction of Speed Dialing	12	NEXT SELECT MEMORY END Restriction / No restriction	Restriction	3-20	7-5
Exchange Code Selection	13	NEXT NEXT CDE MEMORY END exchange code with 3 digits until the desired memory code number appears	Nothing is stored	3-21	7-5
Area Code Entry for class 3	1.4	NEXT NEXT CDE MEMORY END area code with 3 digits until the desired memory code number appears	Nothing is stored	3-22	7-5
Exchange Code Entry for Class 5	15	NEXT CDE MEMORY END exchange code with 3 digits until the desired memory code number appears	Nothing is stored	3-23	7-5
Exchange Code Entry for Class 7	16	NEXT NEXT CDE MEMORY END exchange code with 3 digits until the desired memory code number appears	Nothing is stored	3-24	7-6

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
Hold Time Reminder	17	Refer to page 3-25	7-6
Hold Recall Time Set	18	Refer to page 3-26	7-6
Transfer Recall Time	19	Refer to page 3-27	7-6
Call Forwarding Starting Time	20	Refer to page 3-28	7-6
Pickup Dial Delay Time	2.1	Refer to page 3-29	7-6
CO-to-CO Duration Time Limit	22	Refer to page 3-30	7-7
External Paging Access Tone	29	Refer to page 3-41	7-9

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
SMDR RS-232C Communication Parameters	23	Refer to page 3-32	7-7
SMDR Parameters	24	Refer to page 3-35	7-8
Incoming/ Outgoing call Selection for printing	25	Refer to page 3-36	7-8
Secret Speed dial/One Touch Dial Printing	26	Refer to page 3-36	7-8
System Data Dump	27	Refer to page 3-37	7-8
Duration Time Count Start Mode	28	Refer to page 3-40	7-9

Installation Manual Page

	PROGRAM			<u>,</u>	GE
TO SET	ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT	3-43 3-44 3-46	PROGRAM
CO Connection Assignment	40	NEXT NEXT SELECT MEMORY END Connect / Not Connect until the desired CO number appears	Connect : all CO's		
Dial Mode (DTMF/Pulse) DTMF / Pulse Selection	4.1	NEXT SELECT MEMORY END DTMF Mode / Pulse Mode until the desired CO number appears	DTMF : all CO's	3-43	7-9
Pulse Speed Selection	42	NEXT SELECT MEMORY END Low Speed / High Speed until the desired CO number appears	Low speed : all CO's	3-44	7-9
Trunk Group Assignment	44	NEXT NEXT A MEMORY END dial the trunk group number (1 through 8) until the desired CO number appears	Trunk-G1 : CO 1 Trunk-G2 : CO 2 Trunk-G3 : CO 3 Trunk-G4 : CO 4 Trunk-G5 : CO 5 Trunk-G6 : CO 6 Trunk-G7 : CO 7 Trunk-G8 : CO 8, CO 9 CO 10, CO 11 CO 12		7-10
Flexible Outward Dialing Assignment Day Mode	45	other CO number other jack number NEXT NEXT SELECT MEMORY END Enable / Disable until the desired jack number appears until the desired CO number appears	Enable : all jack numbers	3-47	7-11
Night Mode	46	other CO number other jack number NEXT SELECT MEMORY END Enable / Disable until the desired jack number appears until the desired CO number appears	Enable: all jack numbers	3-48	7-12
Flexible Ringing Assignment Day Mode	47	other CO number other jack number NEXT NEXT SELECT MEMORY ENDEnable / Disableuntil the desired jack number appearsuntil the desired CO number appears	Enable : all jack numbers	3-49	7-13
Night Mode	48	other CO number other jack number NEXT NEXT SELECT MEMORY END Enable / Disable until the desired jack number appears until the desired CO number appears	Enable : all jack numbers	3-51	7-14

	1			1	
TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT		GE PROGRAM TABLE
CO Direct In Line Assignment Day Mode	51	Selecting "Normal" mode NEXT NEXT SELECT MEMORY END	Normal : all CO's	3-54	
Night Mode	52	Selecting "Normal" mode NEXT NEXT SELECT MEMORY END	Normal : all CO's	3-57	7-19

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
Host PBX Access Codes Assignment	43	Refer to page 3-45	7-10
Delayed Ringing Assignment Day Mode	49	Refer to page 3-52	7-15 7-16
Night Mode	50	Refer to page 3-53	7-17 7-18

TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE
Pause Time Assignment	5 3	Refer to page 3-59	7-20
Hookswitch Flash Timing	5 4	Refer to page 3-60	7-20
Calling Party Control (CPC) Signal	5 5	Refer to page 3-61	7-20
Disconnect Time	5 6	Refer to page 3-62	7-20

Extension Feature

Installation Manual Page

TO SET	PROGRAM ADDRESS	STEPS REQUIRED TO CHANGE PROGRAM	DEFAULT		GE PROGRAM TABLE
Extension Group Assignment	6.0	NEXT NEXT A MEMORY END dial the extension group number (1 through 8) until the desired jack number appears	EXT GRP-1 : all jack numbers	3-63	7-21
Call Transfer To Outside Line	6.5	NEXT NEXT SELECT MEMORY END - Enable / Disable - until the desired jack number appears	Disable : all jack numbers	3-71	7-23

					·			T	*	
TO SET	PROGRAM ADDRESS	STEPS REQU	IRED TO (AM	DEFAULT	FC		GE PROGRAM TABLE		
Service Class Assignment of Toll Restriction Day Mode	61	<u> </u>	ORY END the service of	h 8)	Class 1: all jack numbers		64	7-21		
Night Mode	62	•	PRY END he service clesired jack i	า 8)	Class 1 : all jack numbers	3-	66	7-22		
Call Forwarding To Outside Line	66	;	ole / Disable	!	umber appears		Disable : all jack numbers	3-	72	7-23
Excecutive Override	6 7	NEXT NEXT SELECT Enate	ole / Disable		Disable : all jack numbers	3-7	73	7-23		
Do not Disturb Override	68	:	MEMORY Enable / Dis		Disable : all jack numbers	3-7	74	7-24		
TO SET	PROGRAM ADDRESS	PROGRAMMING	PROGRAM TABLE	PROGRAM ADDRESS	PROGRAMMII	NG	PR(OGRAM ABLE		
Extension Name	63	Refer to page 3-68	7-1		Ringing Assignment from Doorphone	70	Refer to page 3-75		7	-24
Account Code Input Mode	6 4	Refer to page 3-70	7-22		Day Mode Night Mode	71	Refer to page 3-76		7	-25
TO SET	PROGRAM ADDRESS	STEPS REQUI	RED TO C	CH	HANGE PROGR	AM	DEFAULT POR DETAIL		R	GE PROGRAM
System Data Clear	99	All Parameters System Parameter Speed Call					All Parameters	DETA	AILS	TABLE
	· .	NEXT SELECT MEMORY END All Para / System Para / CO Para / EXT Para / DSS Para / Speed Call CO Parameter NEXT SELECT MEMORY AB MEMORY END dial CO number until the CO Para appears								
		EXT Parameter NEXT SELECT MEMORY until the DSS Parameter NEXT SELECT MEMORY until the until								

FOR SERVICE TECHNICIANS

ICs and LSIs are vulnerable to static electricity.

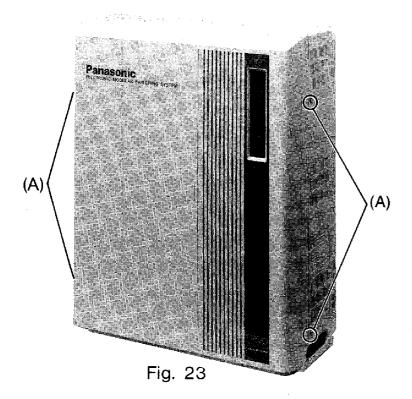
When repairing, the following precautions will help prevent recurring malfunctions.

- *Cover plastic parts boxes with aluminum foil.
- *Ground soldering irons.
- *Use a conductive mat on worktable.
- *Do not grasp IC or LSI pins with bare fingers.

DISASSEMBLY INSTRUCTIONS

1. HOW TO REMOVE THE FRONT CABINET

- 1) Remove the four screws (A).
- 2) Remove the front cabinet.



2. HOW TO REMOVE THE EACH BOARDS

- 1) Remove the three screws (B).
- 2) Remove the angle.
- 3) Remove the board.
- 4) When attach the board, be sure lock the board.

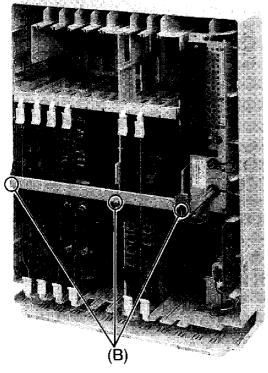
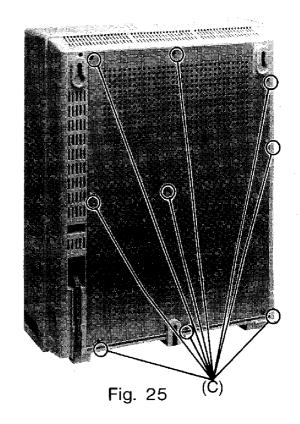
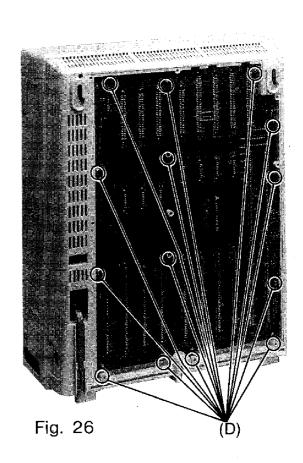


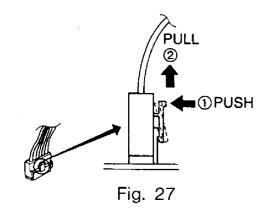
Fig. 24

3. HOW TO REMOVE THE MAIN BOARD

- 1) Remove the nine screws (C).
- 2) Remove the rear cover.
- 3) Remove the fourteen screws (D).
- 4) Pull out the five connectors of power board and power unit. (Refer to Fig. 27)







4. HOW TO REMOVE THE POWER BOARD

- 1) Pull out the five connectors. (Refer to Fig.27)
- 2) Remove the power board.

5. HOW TO DISASSEMBLY THE POWER UNIT

- 1) Remove the two screws (E).
- 2) Pull out the two connectors.
- 3) Remove the power unit.
- 4) Remove the twelve screws (F).
- 5) Remove the three screws (G).
- 6) Remove the cover.
- 7) Remove the seven screws (H).
- 8) Remove the board.

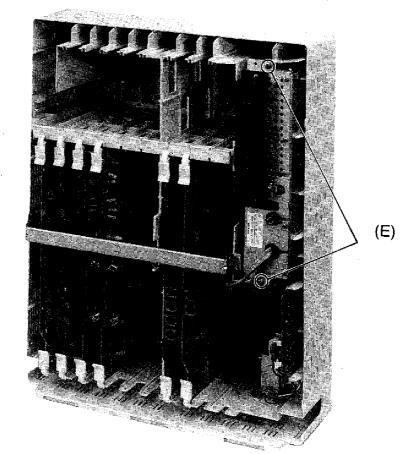


Fig. 28

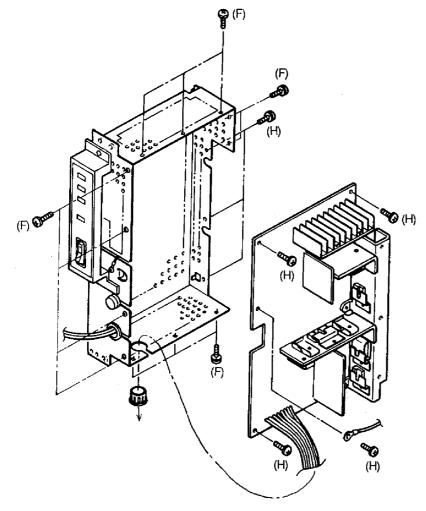
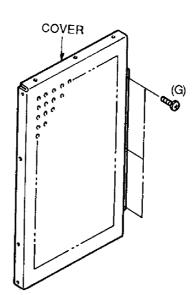


Fig. 29

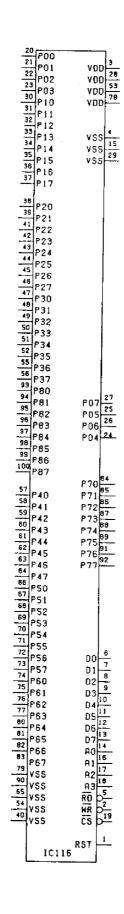


IC I/O DATA

		T			IC116	
Pin No.	Port	Signal Name	<u> </u>	Initialize	Active Status	Remarks
20	P00	DAY	0	*1	Н	Day Mode LED
21	P01	NIGHT	0	*1	H	Night Mode LED
22	P02	HALT	0	Н	L	DISA CPU HALT
23	P03	RESET	0	Н	L	CPR Reset : Watch Dog Control
24	P04	INT	0	L	L	350, 440, 620 Hz Tone Send, CPU Start/Stop Control
25	P05	STOP	0	Н	I	CPR HALT: Momentary Power Failures Response
26	P06	RSDOWN	Ō	 Н	1	RS-232C Driver Power Down Control
27	P07		<u></u>			Not Used
30	P10	CNMD	<u> </u>		1	Optional Modern Card Existence Detection
31	P11	CNDISA	1		<u> </u>	
32	P12		<u> </u>		<u> </u>	Optional DISA Card Existence Detection
33	P13				All 64 45	Not Used
——						Not Used
34	P14			***		Not Used
35	P15					Not Used
36	P16					Not Used
37	P17	CNDIAG	1		L	Optional Diagnosis Card Existence Detection
38	P20	77-54	***			Not Used
39	P21					Not Used
41	P22					Not Used
42	P23					Not Used
43	P24					Not Used
44	P25					Not Used
45	P26					Not Used
46	P27	CNXP	1			Cross Point Card Existence Detection
47	P30	PDRLY1	0	L	H	Extension Card 1 Extension 1 Power Failure Relay
48	P31	PDRLY2	0	<u> </u>	H	
49	P32	PDRLY3	0	L.,	H	Extension Card 1 Extension 2 Power Failure Relay
50			0	L		Extension Card 2 Extension 9 Power Failure Relay
51	P33	PDRLY4		L	H	Extension Card 2 Extension 10 Power Failure Relay
	P34	PDRLY5	0	L	H	Extension Card 3 Extension 17 Power Failure Relay
52	P35	PDRLY6	0	L	Н	Extension Card 3 Extension 18 Power Failure Relay
55	P36					Not Used
56	P37					Not Used
57	P40	POW 1	0	Н	L	DTMF G Control
58	P41	POW 2	0	Н	L	DTMF G Control
59	P42	POW 3	0	Н	L	DTMF G Control
60	P43	POW 4	0	Н	L	DTMF G Control
61	P44	COL 1	0	Н	L	DTMF G Control
62	P45	COL 2	0	Н	L	DTMF G Control
63	P46	COL 3	0	Н	L	DTMF G Control
64	P47	COL 4	0	Н		DTMF G Control
66	P50	STD 1	1		H	DTMF R1 Signal Receive Detection
67	P51	STD 2	1		H	DTMF R2 Signal Receive Detection
68	P52	STD 3	1		Н	
69	P53		1			DTMF R3 Signal Receive Detection
						Not Used
70	P54	SS	1		<u>L</u>	RS-232C
71	P55	DCD	<u> </u>		<u>L</u>	RS-232C
72	P56	PDSIG	-		<u>L</u>	AC Power Down
73	P57	DROP2			<u>L</u>	Optional Doorphone Card Existence Detection
74	P60	CNCT1			Н	Doorphone 1 Connect Detection
75	P61	CNCT2	1		Н	Doorphone 2 Connect Detection
76	P62	DHK1	1	* * *	Н	Doorphone 1 Switch Detection
77	P63	DHK2	1		Н	Doorphone 2 Switch Detection
80	P64	BUSY1	0	Н	L	Doorphone 1 Power Supply Control
81	P65	BUST2	0	H	ī	Doorphone 2 Power Supply Control
82	P66	20 Hz	0	 H	20Hz	Extension Bell Signal
83	P67	SCA	0	<u> </u>	L	RS-232C
		sed on operate		<u> </u>	<u> </u>	110-2020

^{*1:} Be based on operate condition.

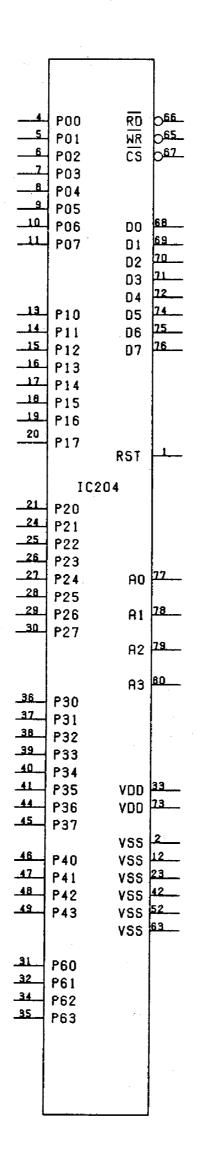
Pin No.	Port	Signal Name	I/O	Initialize	Active Status	Remarks
84	P70					Not Used
85	_P71					Not Used
86	P72					Not Used
87	P73					Not Used
88	P74	TEST1	ı		1	Test Input 1 (Not Used)
89	P75	TEST2			i	Test Input 2 (Not Used)
91	P76	PRG1	ı		<u> </u>	PITS Program Mode
92	P77	PRG2				EIA Program Mode
93	P80					Not Used
94	P81					Not Used
95	P82					Not Used
96	P83					Not Used
97	P84	PDRLY7	0	1	Н	**************************************
98	P85	DRLY1	0	_ _	H	Extension Card 4 Extension 25, 26 Power Failure Relay
99	P86	DRLY2	0			Diagnosis Card Relay 1
100				- <u>-</u>		
	P87	DRLY2 DRLY3	0	L		Diagnosis Card Relay 2 Diagnosis Card Relay 3





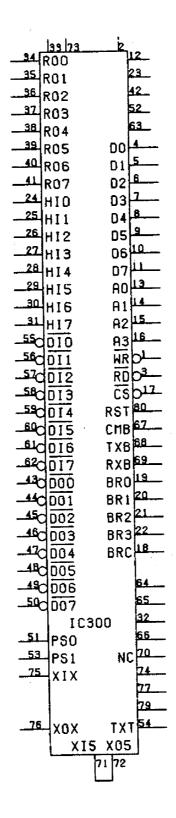
Pin No. Port Signal Name I/O Initialize Active Status April Ap	Din No. Double Singel Name 1/O Leiti II A ti O							
For Pot MT1	Pin No.	Port	Signal Name	1/0	Initialize	Active Status	Remarks	
6 PO2 DL1 O L H Dial Relay COL1 7 7 PO3 DS1 O L H Spark Erass Relay COL1 8 PO4 SH1 O L L Shurt Switch COL1 10 P06 BR1 O H H Occiliate Prevent Switch COL1 11 P07 BELL1 I *1 Bel/CPC 400 mesc Input COL1 11 P07 BELL1 I *1 Bel/CPC 400 mesc Input COL1 14 P11 MT2 O H L Correrence Call Switch COL2 15 P12 DL2 O L H Muls Switch COL2 15 P12 DL2 O L H Spark Erase Relay COL2 17 P14 SH2 O L H Spark Erase Relay COL2 18 P15 <						L		
7 P03 DS1 O L H Spark Ease Relay COL1 8 P04 8H1 O L L Shurt Switch COL1 10 P05 BR1 O H H Oscillate Prevent Switch COL1 11 P07 BELL1 I 11 Bel/CP C400 meec Input COL1 13 P10 CF2 O H L Conference Call Switch COL2 14 P11 MIT2 O H H Mute Switch COL2 15 P12 DL2 O L H Mute Switch COL2 18 P13 DS2 O L H Spark Erase Felay COL2 18 P15 BP2 O L H Spark Erase Felay COL2 20 P17 BELL2 I 1 Diagnose Relay COL2 21 P29 DE3 O							Mute Switch	COL1
8 P04 SH1 O L L Shurt Switch COL1 9 P05 BR1 O H H O Gelilate Prevent Switch COL1 10 P06 D1G1 O L H Degross Relay COL1 11 P07 BELL1 I I I I SHURCPC 400 msec Input COL1 11 P07 BELL1 I I I SHURCPC 400 msec Input COL1 11 P07 BELL1 I I I SHURCPC 400 msec Input COL1 12 P11 MT2 O H L Conference Call Switch COL2 13 P10 D12 O L H Mute Switch COL2 14 P11 MT2 O L H Mute Switch COL2 15 P12 D12 O L H Spark Erase Relay COL2 16 P13 DS2 O L H Spark Erase Relay COL2 17 P14 SH2 O L H Shurt Switch COL2 18 P15 BR2 O L H Spark Erase Relay COL2 19 P16 D1G2 O L H Oscillate Prevent Switch COL2 20 P17 BELL2 I I SHURCPC 400 msec Input COL2 21 P20 CF3 O H L Conference Call Switch COL3 22 P17 P18 MT3 O H M Mute Switch COL3 24 P21 MT3 O H M Mute Switch COL3 25 P22 D13 O L H D1all Relay COL3 26 P23 DS3 O L H Spark Erase Relay COL3 27 P24 SH3 O L Shurt Switch COL3 28 P25 BR3 O L H Spark Erase Relay COL3 29 P26 D1G3 O L H Spark Erase Relay COL3 29 P27 D1G3 O L H D1all Relay COL3 29 P28 D1G3 O L H D1all Relay COL3 29 P29 D1G3 O L H B24 Shurt Switch COL3 29 P29 D1G3 O L H B24 Shurt Switch COL3 29 P29 D1G3 O L H B24 Shurt Switch COL3 29 P29 D1G3 O L H B24 Shurt Switch COL3 29 P29 D1G3 O L H B24 Shurt Switch COL3 29 P29 D1G3 O L H B24 Shurt Switch COL3 30 P27 BELL3 I I Shurt Switch COL3 31 P60 CODE1 I I Shurt Switch COL3 31 P60 CODE1 I I Shurt Switch COL3 32 P61 CODE2 I Shurt Switch COL3 33 P61 CODE2 I Shurt Switch COL3 34 P62 CODE3 I I Shurt Switch COL4 37 P31 MT4 O H L Conference Call Switch COL4 48 P32 Shurt Switch COL4 49 P34 SH4 O L H Spark Erase Relay COL4 49 P34 SH4 O L H Spark Erase Relay COL4 49 P34 SH4 O L H Spark Erase Relay COL4 49 P34 SH4 O L H Spark Erase Relay COL4 49 P35 BR4 O H L COnference Call Switch COL4 40 P34 SH4 O L H Spark Erase Relay COL4 41 P35 BR4 O H L CORFERCE CALL Switch Switch COL4 41 P35 BR4 O H L CORFERCE CALL Switch Switch COL4 42 P36 D164 O L H Spark Erase Relay COL4 43 P42 CPC3 I I Shurt Switch COL4 44 P36 D164 O L H Spark Erase Relay COL4 45 P37 Spark Erase Relay COL4 46 P40 CPC0 I I Shurt Switch COL4 47 P41			 					COL1
POS BRIT O H H Oscillate Prevent Switch COL1		· · · · · ·			L	H	Spark Erase Relay	COL1
10		P04	SH1	0	L	L	Shunt Switch	COL1
11	9	P05	BR1	0	Н	Н	Oscillate Prevent Switch	COL1
13	10	P06	DIG1	0	L	Н	Diagnosis Relay	COL1
14	11	P07	BELL1	1		*1	Bell/CPC 400 msec Input	COL1
15	13	P10	CF2	0	Н	L	Conference Call Switch	COL2
16	14	P11	MT2	0	Н	Н	Mute Switch	COL2
16	15	P12	DL2	0	L	Н	Dial Relay	COL2
17	16	P13	DS2	0	L	Н	Spark Erase Relay	
18	17	P14	SH2	0	L	Н		
19	18	P15	BR2	0	Н	Н	Oscillate Prevent Switch	
20	19	P16	DIG2	0	L			
P20 P20 P3	20		†···	1				
24				Ó		1		
25						Н		
26			· · · · · · · · · · · · · · · · · · ·		11			
27	 		 		<u> </u>			
P25 P25 BR3						П 1	†	
P26 P26 DIG3			· · · · · · · · · · · · · · · · · · ·		L	<u> </u>		
30					П			······································
31			 	<u> </u>	L			
32	1			<u> </u>				COL3
34				<u> </u>				
35				<u> </u>				
36				1				
37 P31 MT4 O H H Mute Switch COL4 38 P32 DL4 O L H Dial Relay COL4 39 P33 DS4 O L H Spark Erase Relay COL4 40 P34 SH4 O L L Shunt Switch COL4 41 P35 BR4 O H H Oscillate Prevent Switch COL4 44 P36 DIG4 O L H Diagnosis Relay COL4 44 P36 DIG4 O L H Diagnosis Relay COL4 45 P37 BELL4 I *1 Bell/CPC 400 msec Input COL4 46 P40 CPC01 I L CPC 6.5 msec Detection COL1 47 P41 CPC2 I L CPC 6.5 msec Detection COL2 48 P42 CPC3 I </td <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td>*2</td> <td></td> <td></td>				<u> </u>		*2		
38 P32 DL4 O L H Dial Relay COL4 39 P33 DS4 O L H Spark Erase Relay COL4 40 P34 SH4 O L L Shunt Switch COL4 41 P35 BR4 O H H Oscillate Prevent Switch COL4 44 P36 DIG4 O L H Diagnosis Relay COL4 45 P37 BELL4 I *1 Bell/CPC 400 msec Input COL4 45 P37 BELL4 I *1 Bell/CPC 400 msec Input COL4 46 P40 CPC01 I L CPC 6.5 msec Detection COL1 47 P41 CPC2 I L CPC 6.5 msec Detection COL2 48 P42 CPC3 I L CPC 6.5 msec Detection COL3 49 P43 CPC4 I			 				Conference Call Switch	COL4
39 P33 DS4 O L H Spark Erase Relay COL4 40 P34 SH4 O L L Shunt Switch COL4 41 P35 BR4 O H H Oscillate Prevent Switch COL4 44 P36 DIG4 O L H Diagnosis Relay COL4 45 P37 BELL4 I *1 Bell/CPC 400 msec Input COL4 46 P40 CPC01 I L CPC 6.5 msec Detection COL1 47 P41 CPC2 I L CPC 6.5 msec Detection COL2 48 P42 CPC3 I L CPC 6.5 msec Detection COL4 50 P44 L CPC 6.5 msec Detection COL4 51 P45 Not Used 52 P46 Not Used 55 P50					Н	Н	Mute Switch	COL4
A0				0	L	Н	Dial Relay	COL4
41 P35 BR4 O H H Oscillate Prevent Switch COL4 44 P36 DIG4 O L H Diagnosis Relay COL4 45 P37 BELL4 I *1 Bell/CPC 400 msec Input COL4 46 P40 CPC01 I L CPC 6.5 msec Detection COL1 47 P41 CPC2 I L CPC 6.5 msec Detection COL2 48 P42 CPC3 I L CPC 6.5 msec Detection COL3 49 P43 CPC4 I L CPC 6.5 msec Detection COL4 50 P44 L CPC 6.5 msec Detection COL4 51 P45 Not Used 52 P46 Not Used 55 P50 Not Used 57 P52 Not Used	39			0	L	Н	Spark Erase Relay	COL4
44 P36 DIG4 O L H Diagnosis Relay COL4 45 P37 BELL4 I *1 Bell/CPC 400 msec Input COL4 46 P40 CPC01 I L CPC 6.5 msec Detection COL1 47 P41 CPC2 I L CPC 6.5 msec Detection COL2 48 P42 CPC3 I L CPC 6.5 msec Detection COL3 49 P43 CPC4 I L CPC 6.5 msec Detection COL4 50 P44 L CPC 6.5 msec Detection COL4 51 P45 Not Used 52 P46 Not Used 53 P47 Not Used 55 P50 Not Used 57 P52 Not Used <td>40</td> <td>P34</td> <td>SH4</td> <td>0</td> <td>L</td> <td>L</td> <td>Shunt Switch</td> <td>COL4</td>	40	P34	SH4	0	L	L	Shunt Switch	COL4
45 P37 BELL4 I *1 Bell/CPC 400 msec Input COL4 46 P40 CPC01 I L CPC 6.5 msec Detection COL1 47 P41 CPC2 I L CPC 6.5 msec Detection COL2 48 P42 CPC3 I L CPC 6.5 msec Detection COL3 49 P43 CPC4 I L CPC 6.5 msec Detection COL4 50 P44 Not Used 51 P45 Not Used 52 P46 Not Used 53 P47 Not Used 55 P50 Not Used 57 P52 Not Used 59 P54 Not Used 60 P55 Not Used <t< td=""><td>41</td><td>P35</td><td>BR4</td><td>0</td><td>Н</td><td>Н</td><td>Oscillate Prevent Switch</td><td>COL4</td></t<>	41	P35	BR4	0	Н	Н	Oscillate Prevent Switch	COL4
45 P37 BELL4 I *1 Bell/CPC 400 msec Input COL4 46 P40 CPC01 I L CPC 6.5 msec Detection COL1 47 P41 CPC2 I L CPC 6.5 msec Detection COL2 48 P42 CPC3 I L CPC 6.5 msec Detection COL3 49 P43 CPC4 I L CPC 6.5 msec Detection COL3 50 P44 L CPC 6.5 msec Detection COL3 50 P44 L CPC 6.5 msec Detection COL4 Not Used Not Used 51 P45 Not Used 52 P46 Not Used 55 P50 Not Used 56 P51 Not Used 59 P54 Not Used <td>44</td> <td>P36</td> <td>DIG4</td> <td>0</td> <td>L</td> <td>Н</td> <td>Diagnosis Relay</td> <td></td>	44	P36	DIG4	0	L	Н	Diagnosis Relay	
46 P40 CPC01 I L CPC 6.5 msec Detection COL1 47 P41 CPC2 I L CPC 6.5 msec Detection COL2 48 P42 CPC3 I L CPC 6.5 msec Detection COL3 49 P43 CPC4 I L CPC 6.5 msec Detection COL4 50 P44 L CPC 6.5 msec Detection COL3 50 P44 L CPC 6.5 msec Detection COL3 50 P44 Not Used 51 P45 Not Used 52 P46 Not Used 53 P47 Not Used 55 P50 Not Used 57 P52 Not Used 59 P54 Not Used	45	P37	BELL4			*1		
47 P41 CPC2 I L CPC 6.5 msec Detection COL2 48 P42 CPC3 I L CPC 6.5 msec Detection COL3 49 P43 CPC4 I L CPC 6.5 msec Detection COL4 50 P44 Not Used 51 P45 Not Used 52 P46 Not Used 53 P47 Not Used 55 P50 Not Used 56 P51 Not Used 57 P52 Not Used 59 P54 Not Used 60 P55 Not Used 61 P56 Not Used	46	P40	CPC01	1		L		
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59 P54 Not Used 60 P55 Not Used 61 P56 Not Used								
60 P55 Not Used 61 P56 Not Used								
61 P56 Not Used								
<u> 64 P57 Not Used</u>			· · · · · · · · · · · · · · · · · · ·					
*1: BELL ActiveL CPC ActiveH *2: Be based on classification code.								

^{*1:} BELL Active...L CPC Active...H *2: Be based on classification code.

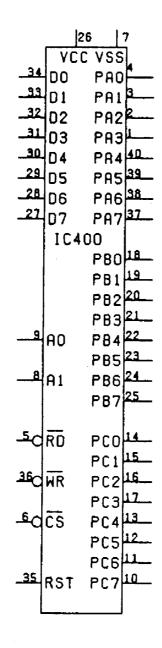


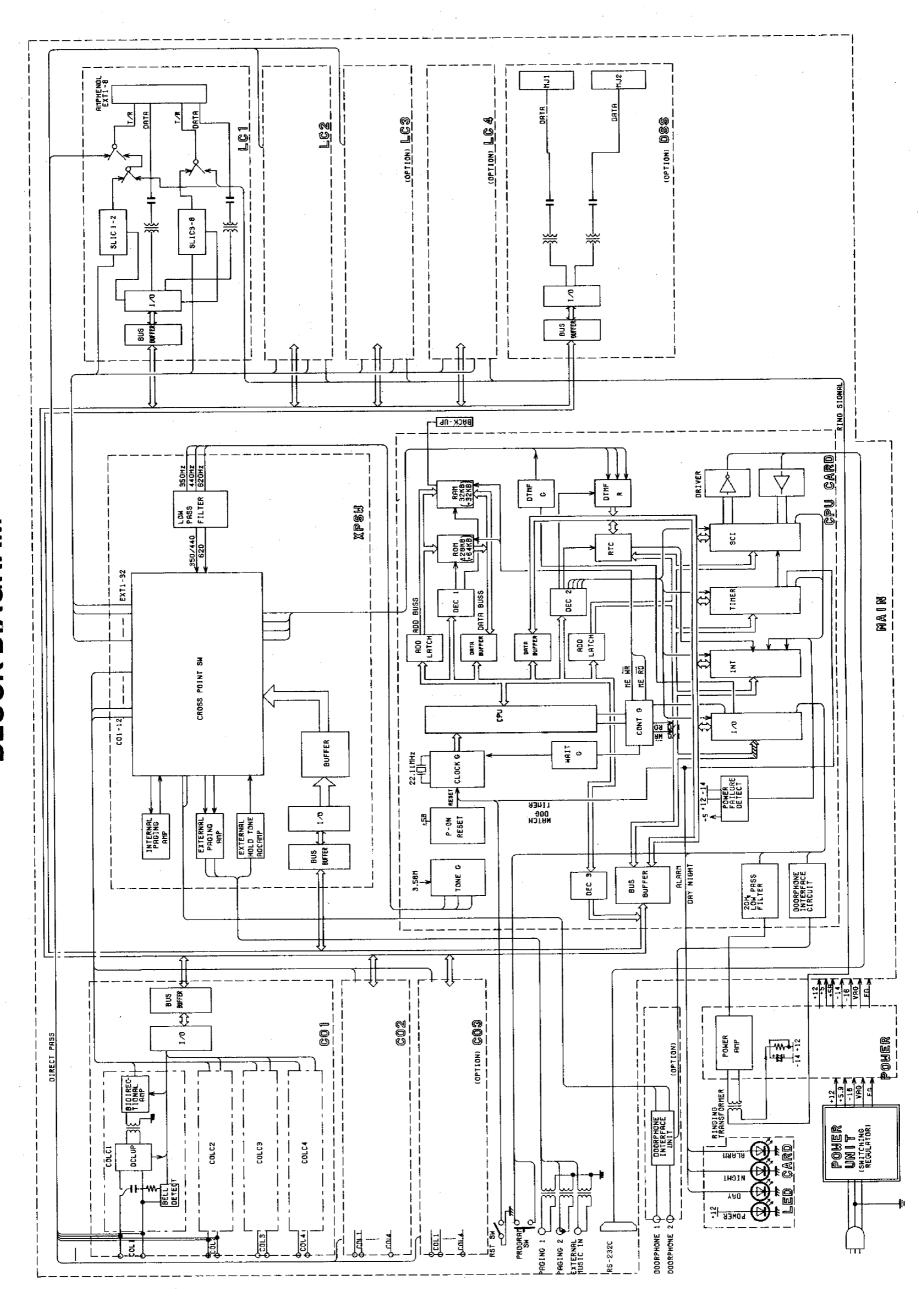
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Pin No.	Port	Signal Name	I/O	Initialize	Active Status	Remarks
 		 	1/0	IIIIIIalize	Active Status	
24	HIO	HOOK1]		L.	HOOK Detection Extension 1
25	HI1	HOOK2			L	HOOK Detection Extension 2
26	HI2	НООК3	ı		L	HOOK Detection Extension 3
27	НІЗ	HOOK4	1		L	HOOK Detection Extension 4
28	H14	HOOK5	I		L	HOOK Detection Extension 5
29	HI5	HOOK6	1 .	get ties tiel	L	HOOK Detection Extension 6
30	HI6	НООК7			L	HOOK Detection Extension 7
31	HI7	HOOK8	1		L	HOOK Detection Extension 8
34	R00	RING1	0	L	Н	Bell Relay Extension 1
35	R01	RING2	0	L	Н	Bell Relay Extension 2
36	R02	RING3	0	- L	Н	Bell Relay Extension 3
37	R03	RING4	0	L	Н	Bell Relay Extension 4
38	R04	RING5	0	L	Н	Bell Relay Extension 5
39	R05	RING6	0	L	Н	Bell Relay Extension 6
40	R06	RING7	0	L	Н	Bell Relay Extension 7
41	R07	RING8	0	L	H	Bell Relay Extension 8



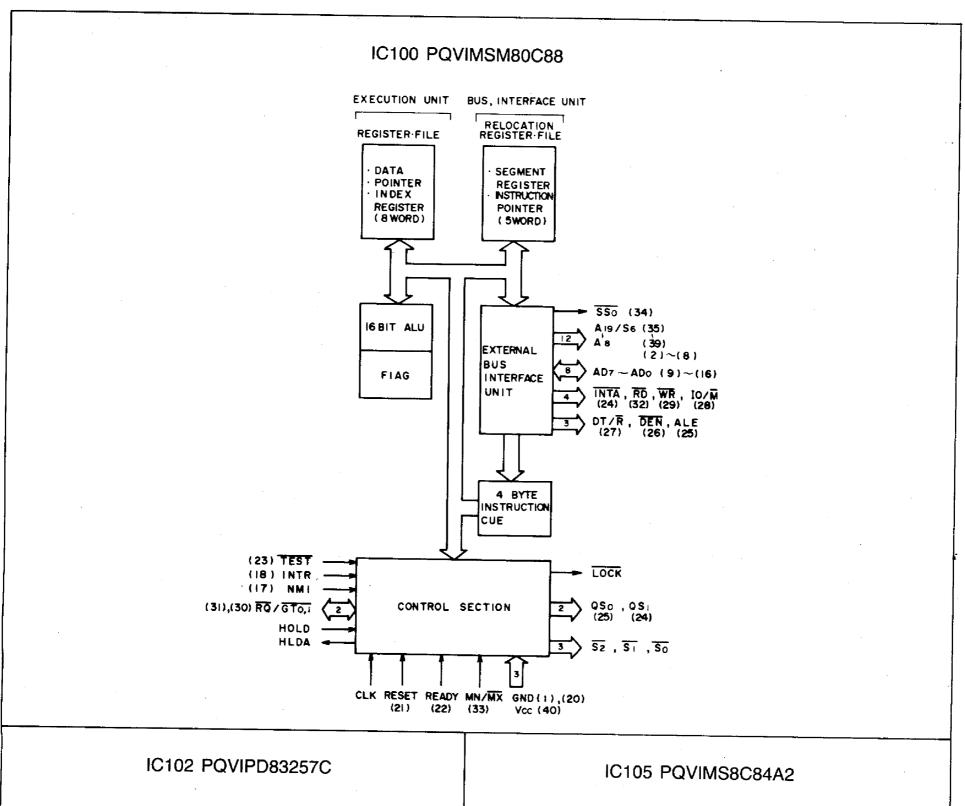
		†			10400	
Pin No.	Port	Signal Name	1/0	Initialize	Active Status	Remarks
1	PA3	STB3	0	L	Н	Cross Point STB Terminal 3
2	PA2	STB2	0	L	Н	Cross Point STB Terminal 2
3	PA1	STB1	0	L	Н	Cross Point STB Terminal 1
4	PA0	STB0	0	L	Н	Cross Point STB Terminal 0
10	PC7					Not Used
11	PC6					Not Used
12	PC5					Not Used
13	PC4	E	0	Ļ	Н	Cross Point Address Terminal E
14	PC0	Α	0	L	Н	Cross Point Address Terminal A
15	PC1	В	0	L	Н	Cross Point Address Terminal B
16	PC2	С	0	ا _م ا	Н	Cross Point Address Terminal C
17	PC3	D	0	L	Н	Cross Point Address Terminal D
18	PB0	XD0	_0	L	Н	Cross Point Data Terminal 0
19	PB1	XD1	0	L	Н	Cross Point Data Terminal 1
20	PB2	XD2	0	L	Н	Cross Point Data Terminal 2
21	PB3	XD3	0	L	Н	Cross Point Data Terminal 3
22	PB4	XD4	0	L	H	Cross Point Data Terminal 4
23	PB5	XD5	0	L		Cross Point Data Terminal 5
24	PB6	XD6	0	L		Cross Point Data Terminal 6
25	PB7	XD7	0	L		Cross Point Data Terminal 7
37	PA7	STB7	0	L		Cross Point STB Terminal 7
38	PA6	STB6	0	L	[Cross Point STB Terminal 6
39	PA5	STB5	0	L		Cross Point STB Terminal 5
40	PA4	STB4	0	L		Cross Point STB Terminal 4

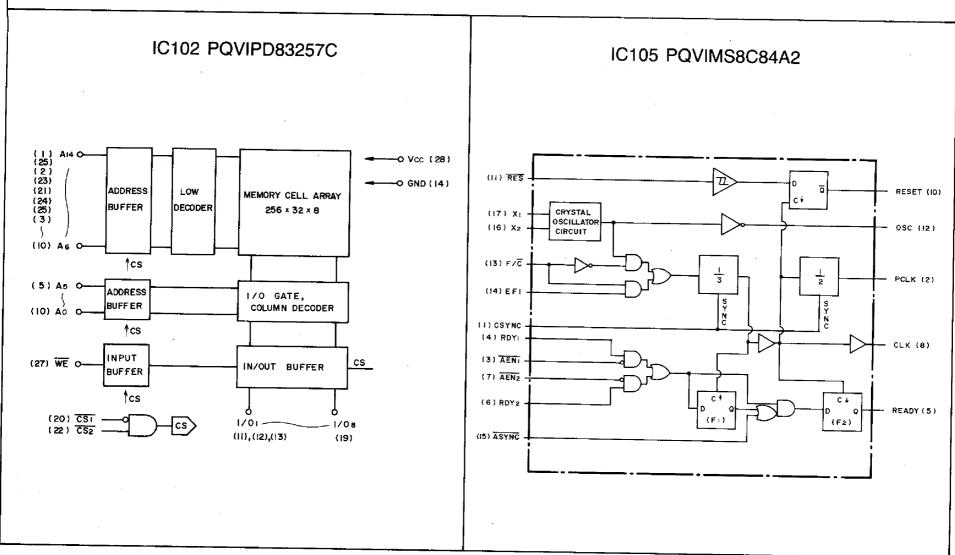


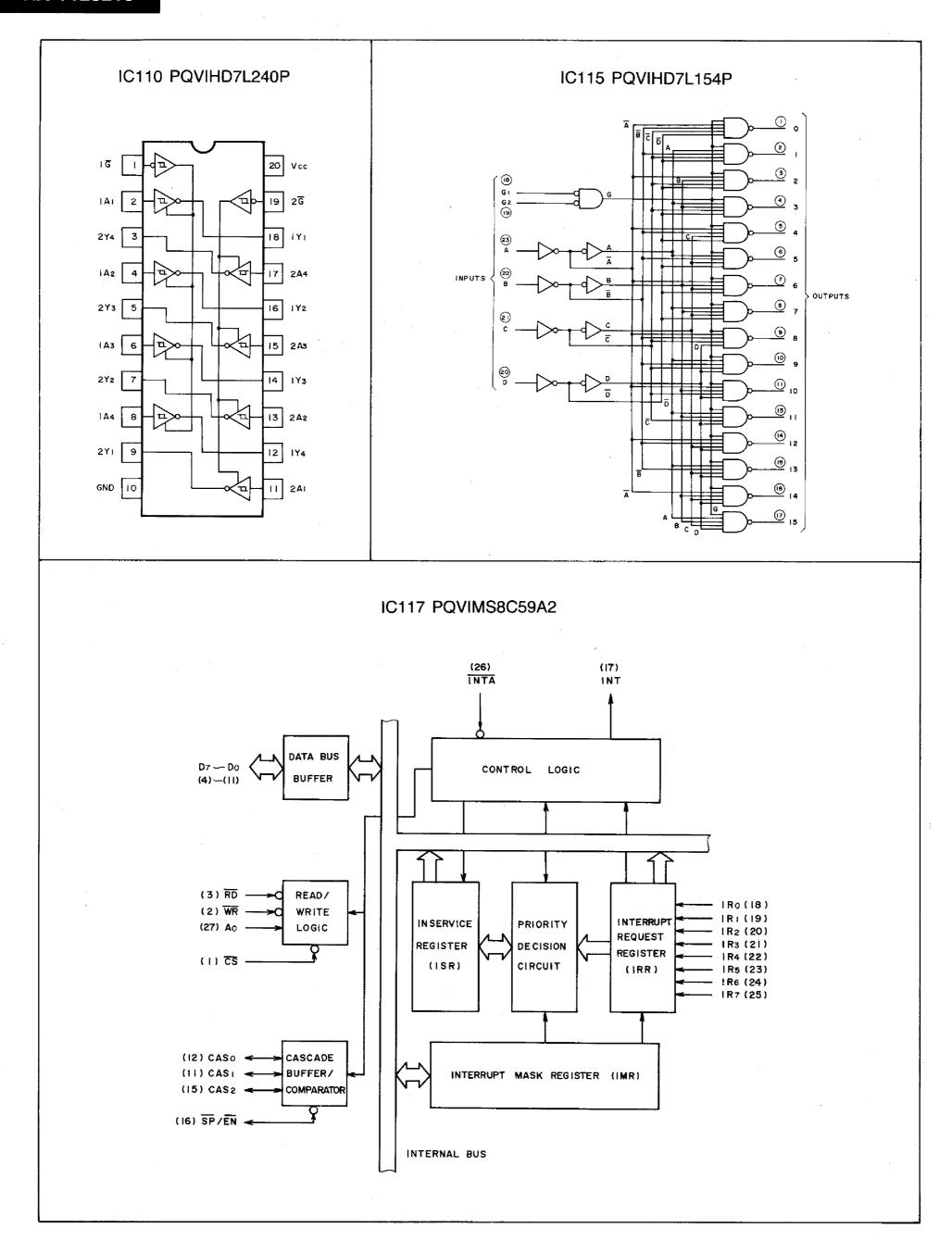


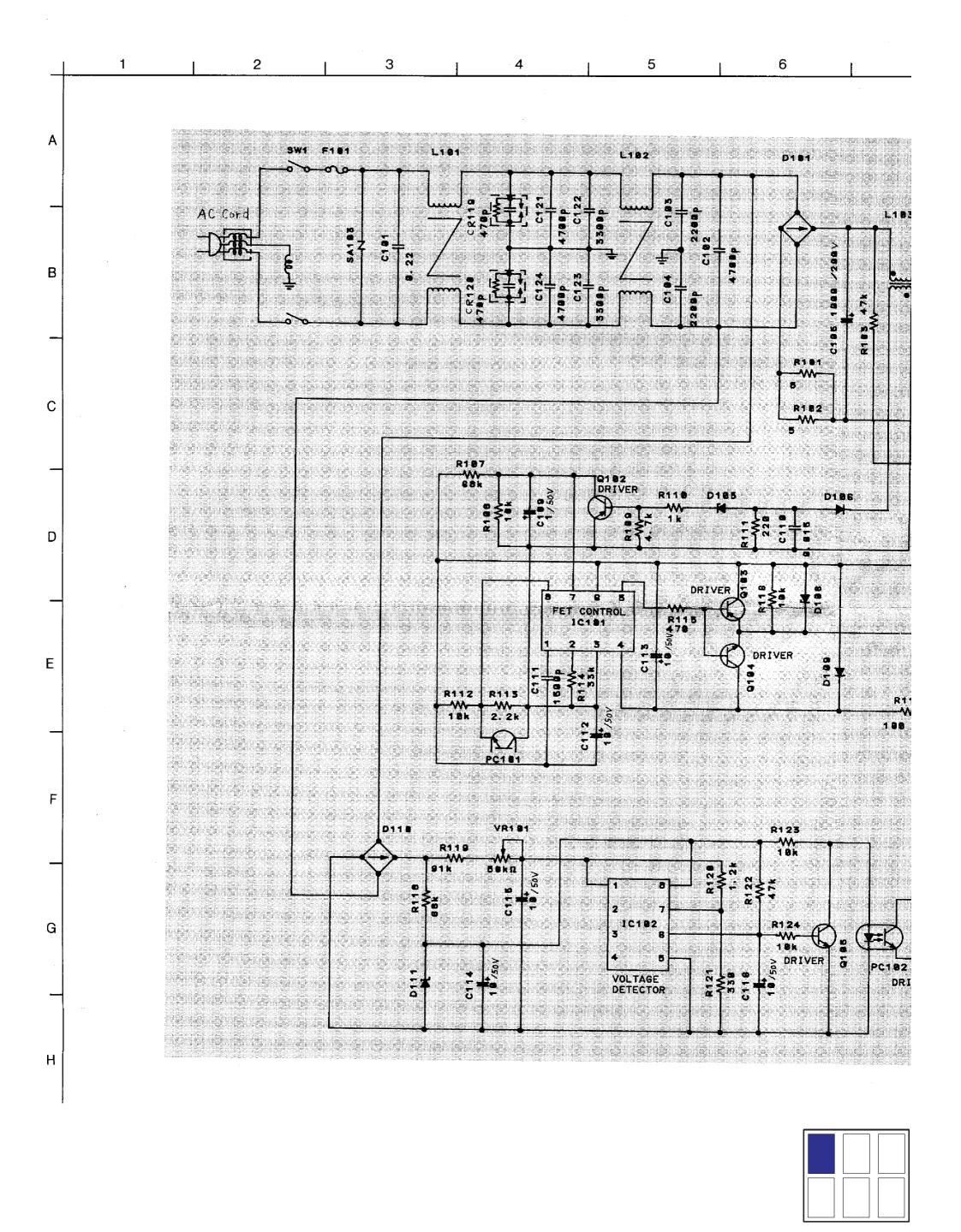
BLOCK DIAGRAM

IC BLOCK DIAGRAM





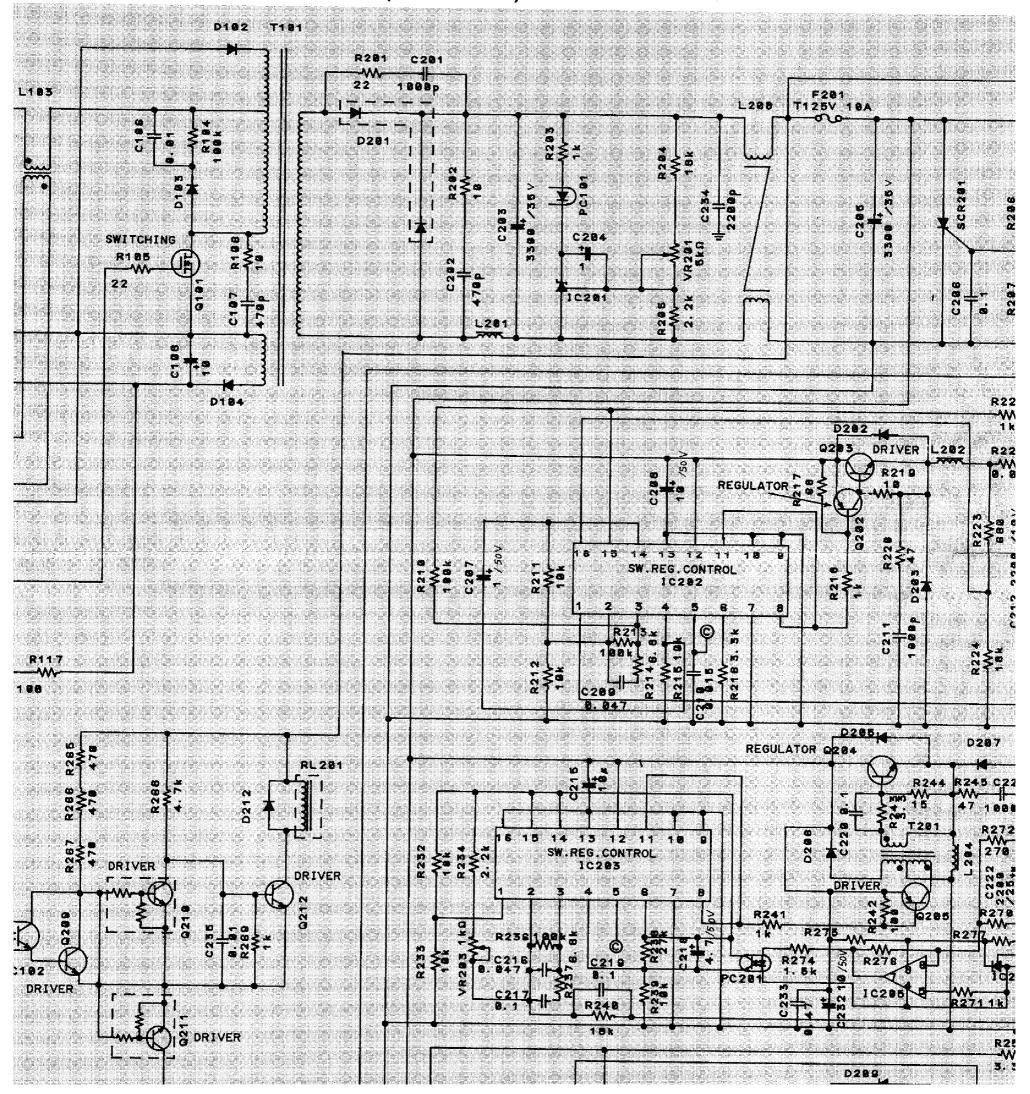


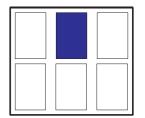


SCHEMATIC DIAGRAM

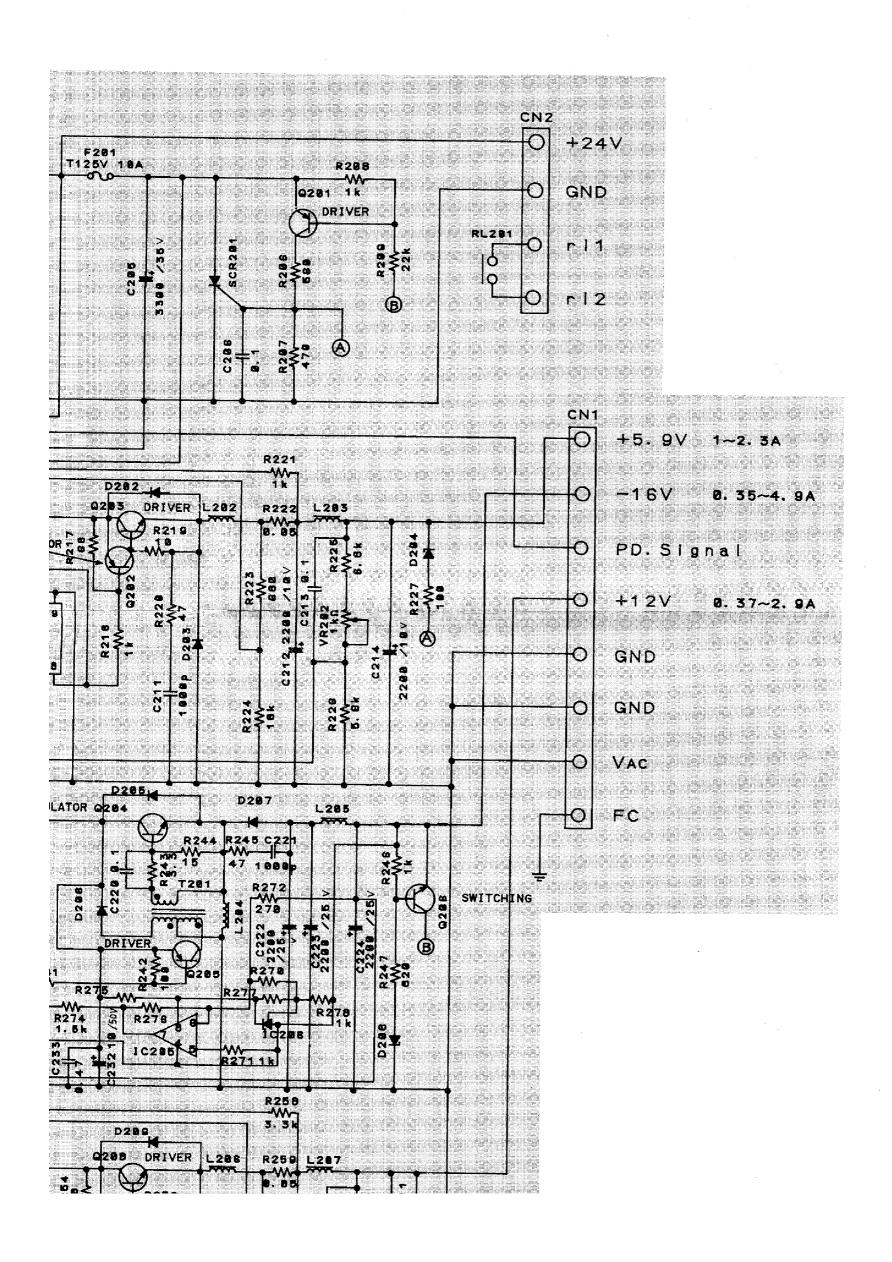
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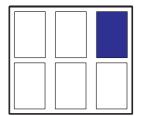
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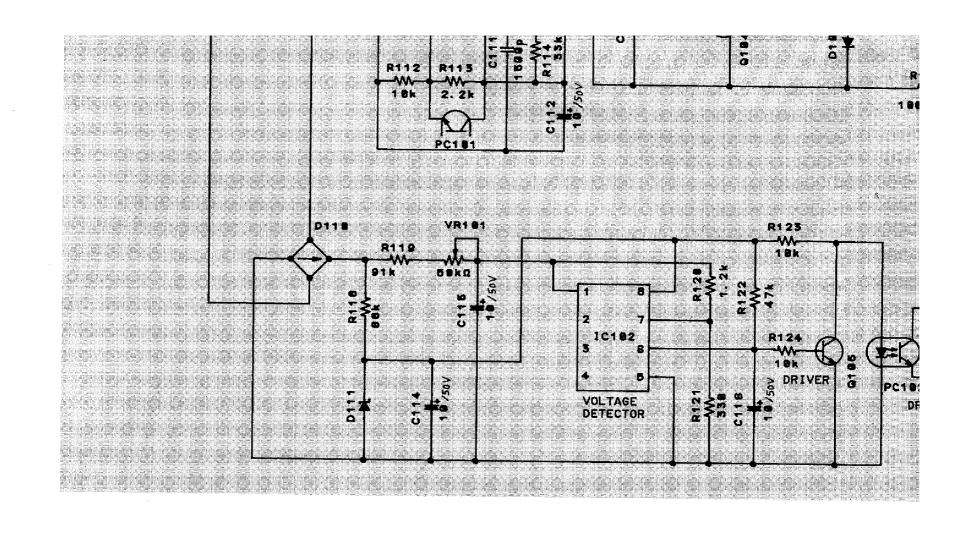




12 | 13 | 14 | 15 | 16 | 17 | 18







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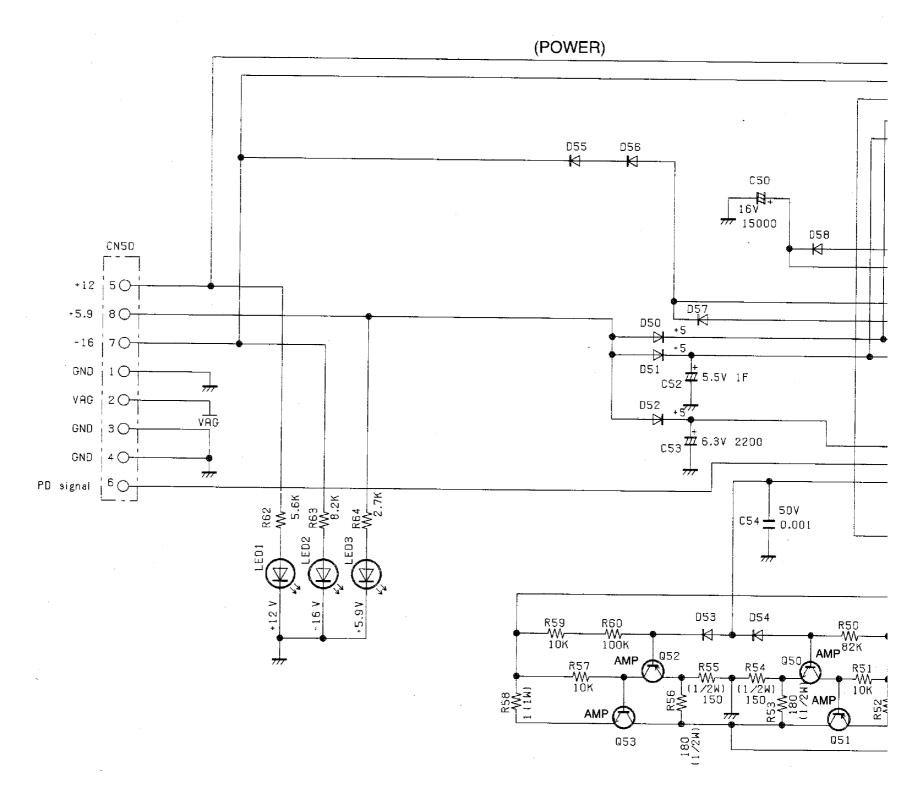
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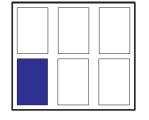
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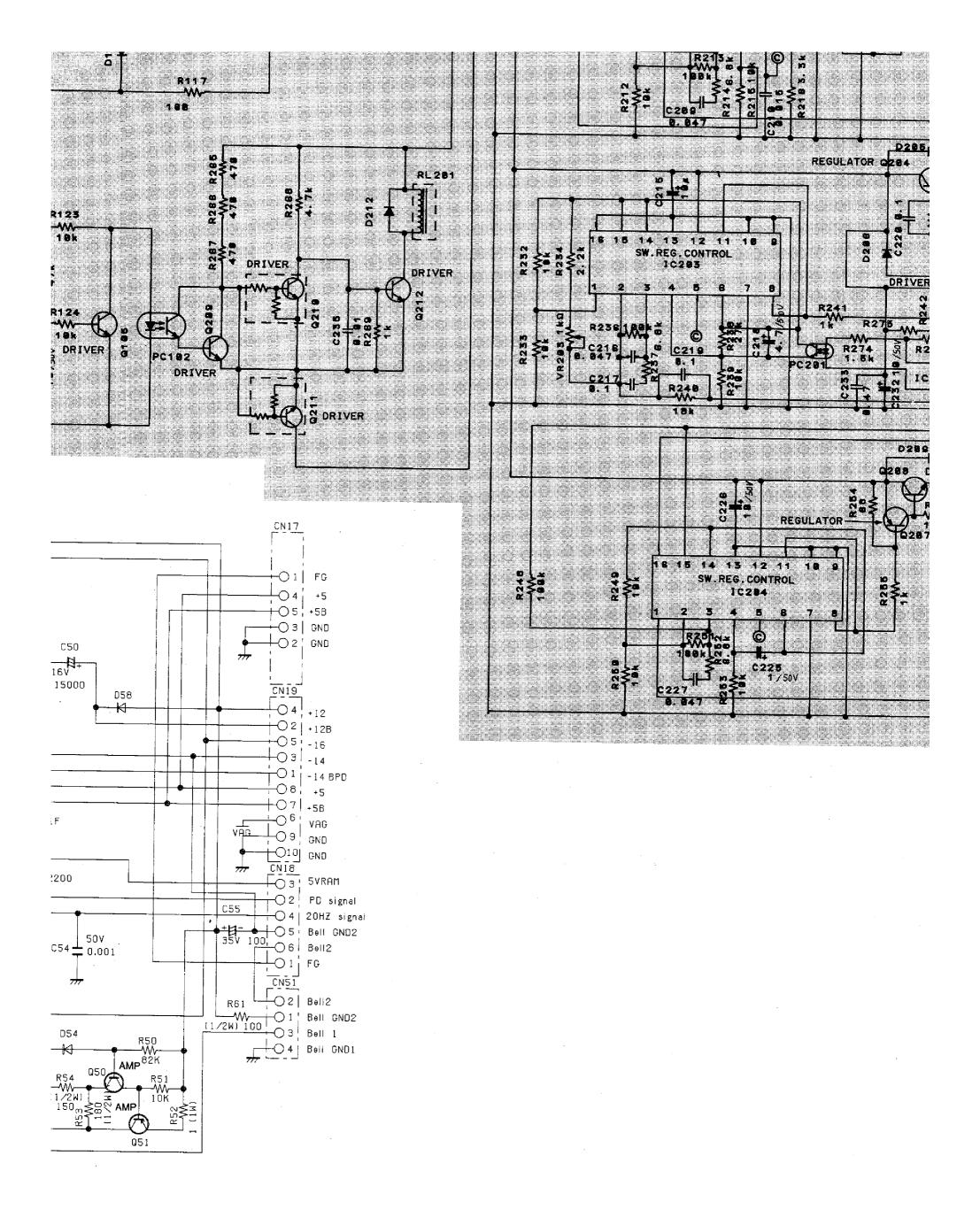
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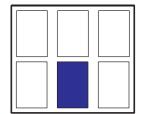
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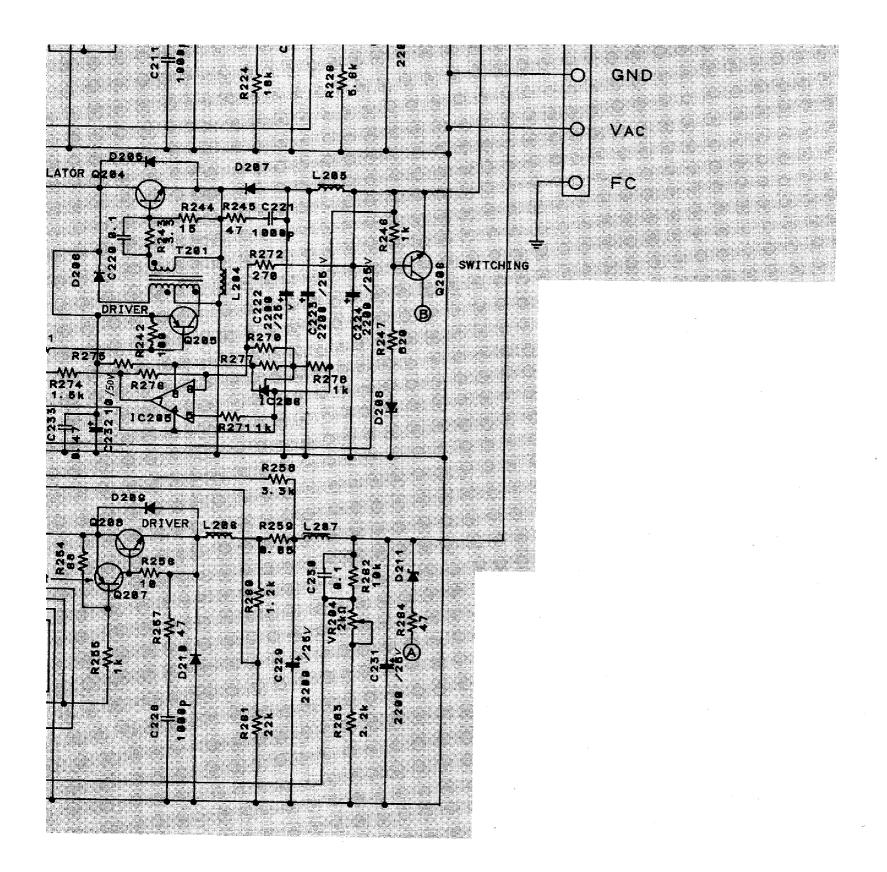
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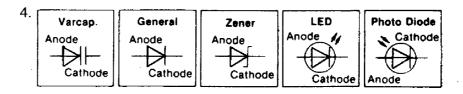


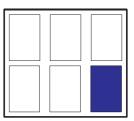


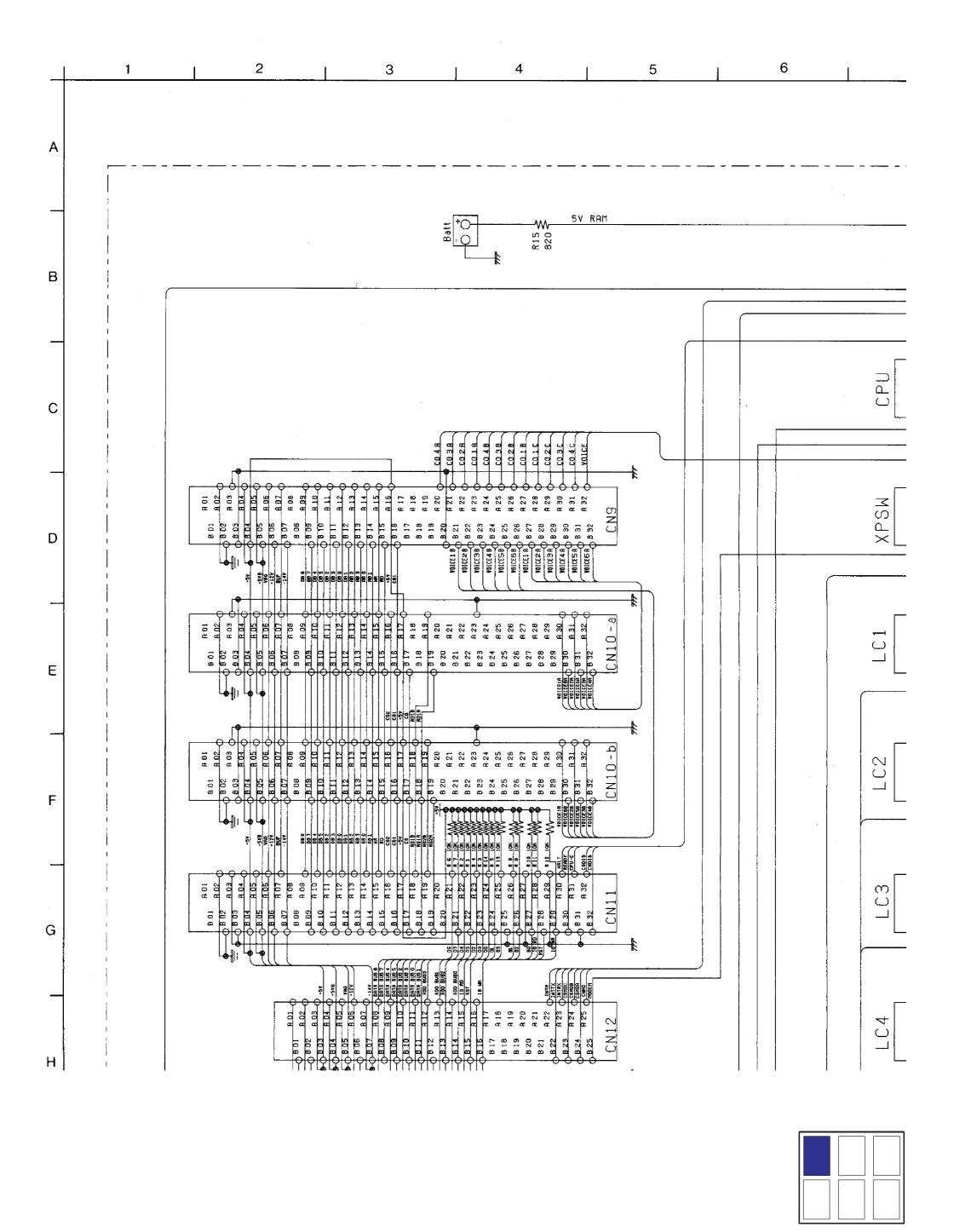
Note:

- 1. DC voltage measurements are taken with electronic voltmeter from negative terminal of battery.
- 2. This schematic diagram may be modified at any time with the development of new technology.
- The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards.

 When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.







SCHEMATIC DIAGRAM (MAIN)

10

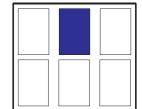
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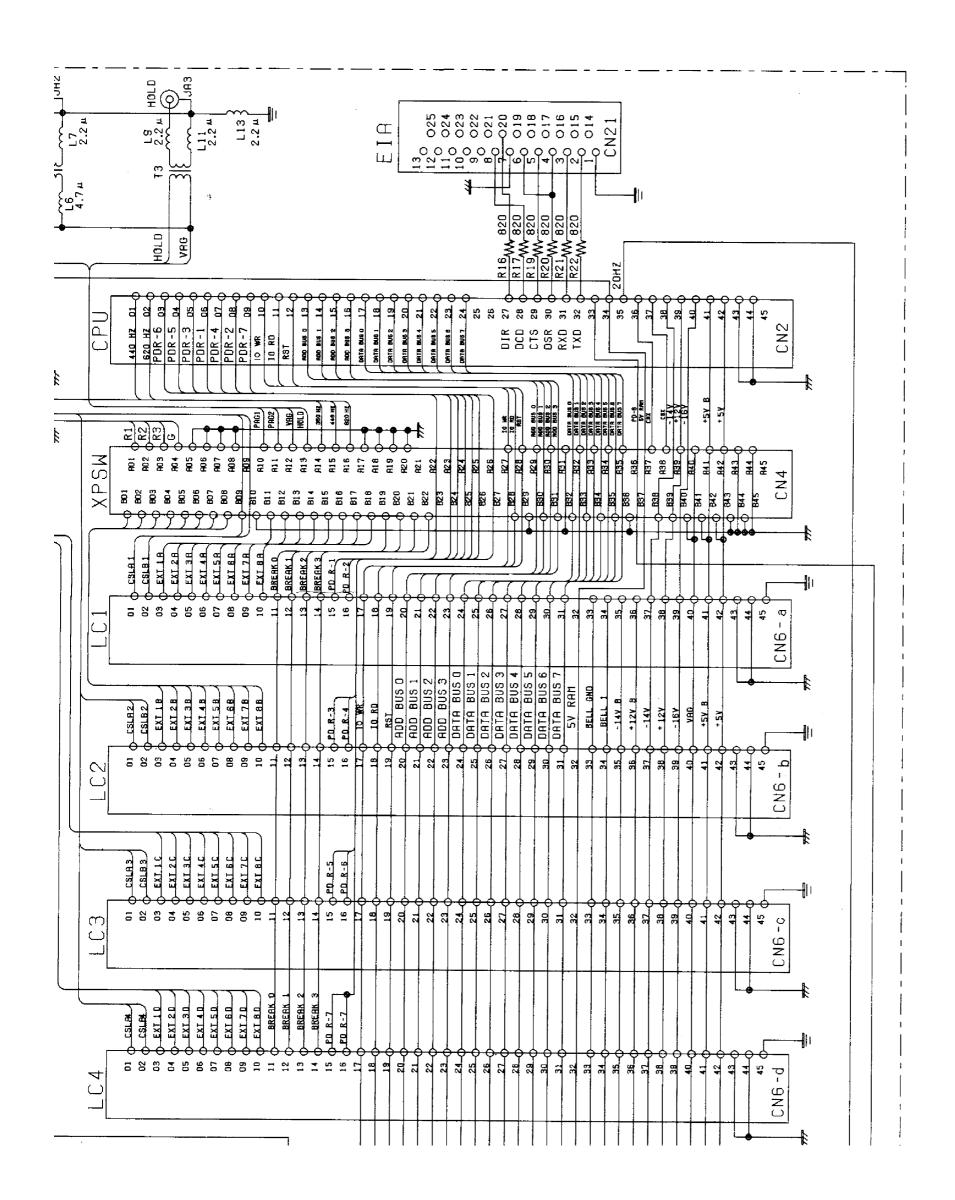
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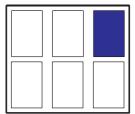
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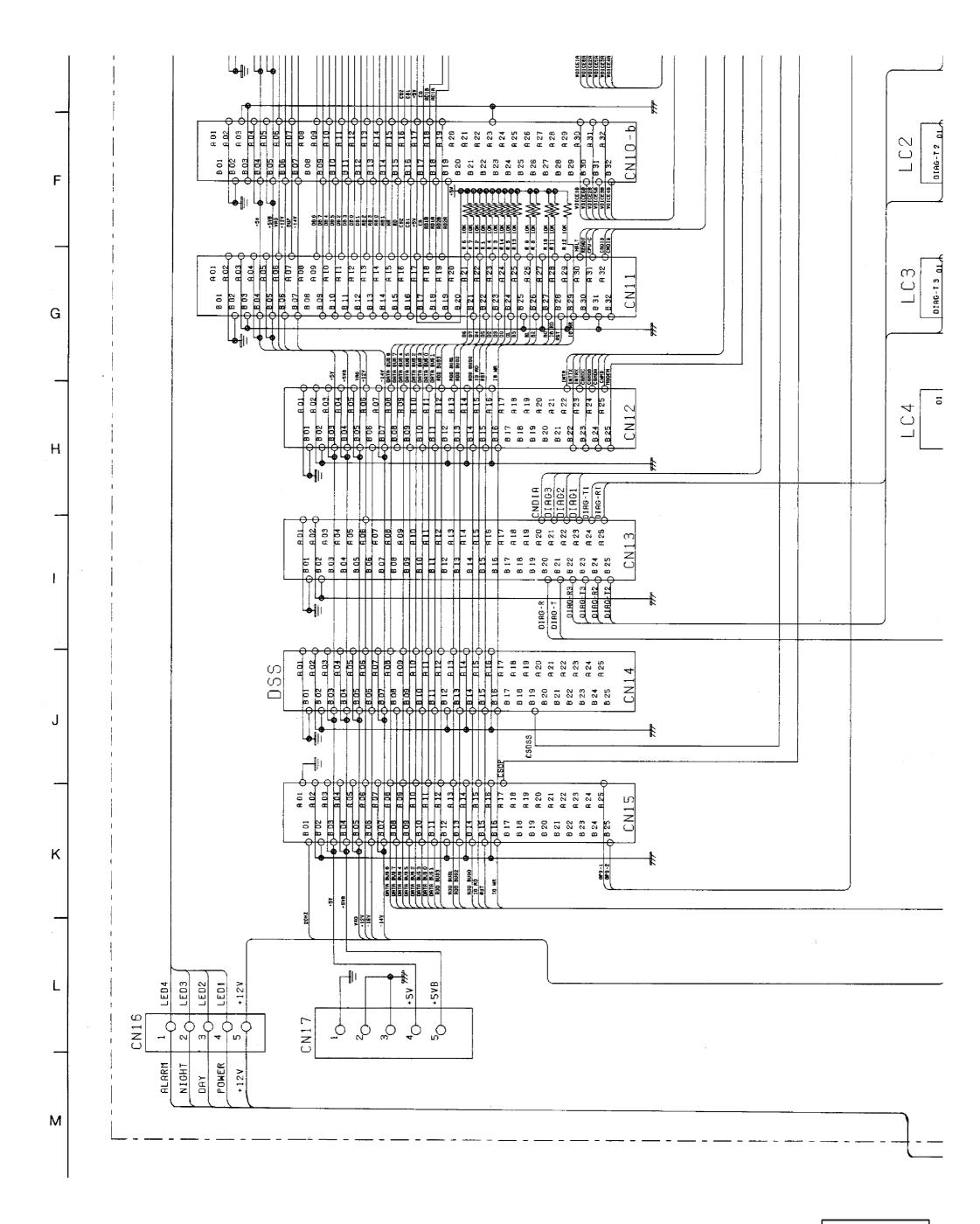
를 () PROG SW EIR T 0PR -2.2 µ T2 13 НОГО VAG 820 HZ 02 POR - 6 03 POR - 5 04 POR - 1 06 POR - 4 07 POR - 2 08 POR - 7 09 10 WR 10 350 HZ 45 R3 42 GENERRTOR43 8 CNDIA DIAG3 DIAG3 DIAG1 INTX INTX CSMDB CS READY HALT CSOP CSOSS CN1 <u>a</u>. CSLB3
CSLB3
CSLB2
CSLB1
CSLB1
CTRF
OTHF
OTHF CSLB 4 EXT 20 29 0 EXT 30 30 0 EXT 40 31 0 EXT 70 34 0 EXT 70 34 0 EXT 80 35 0 EXT 80 35 0 EXT 80 35 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 38 0 EXT 10 EXT 6C 43 EXT 7C 44 EXT 8C 45 EXT 1C 38
EXT 2C 39
EXT 3C 40
EXT 4C 41
EXT 5C 42 25 25 28 29 30 <u>ス</u>の SA10 A11 屲 σ 802 804 805 807 809 809 810 811 812 813 유 च् ब्रू ब्रू ब्रू ब्रू ब्रू ब्रू CN5-a LC1 D180-T1 EXT 8B EXT 7B a a a a a a a 9 \sim D186-T2 D186-R2 CN5 \bigcirc \Box EXT 7C EXT 8C EXT 6C वृष्ठ्र ब्रुच्च स्रुच्च स्रुच्च 01 02 03 04 05 05 06 06 08 (1)D1RG-R3 \bigcirc CN5 11 R 1 L 02 03 04 04 04 05 04 01 02 03 04 05 05 07 09 09 110 111 4 \Box CN5

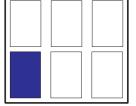


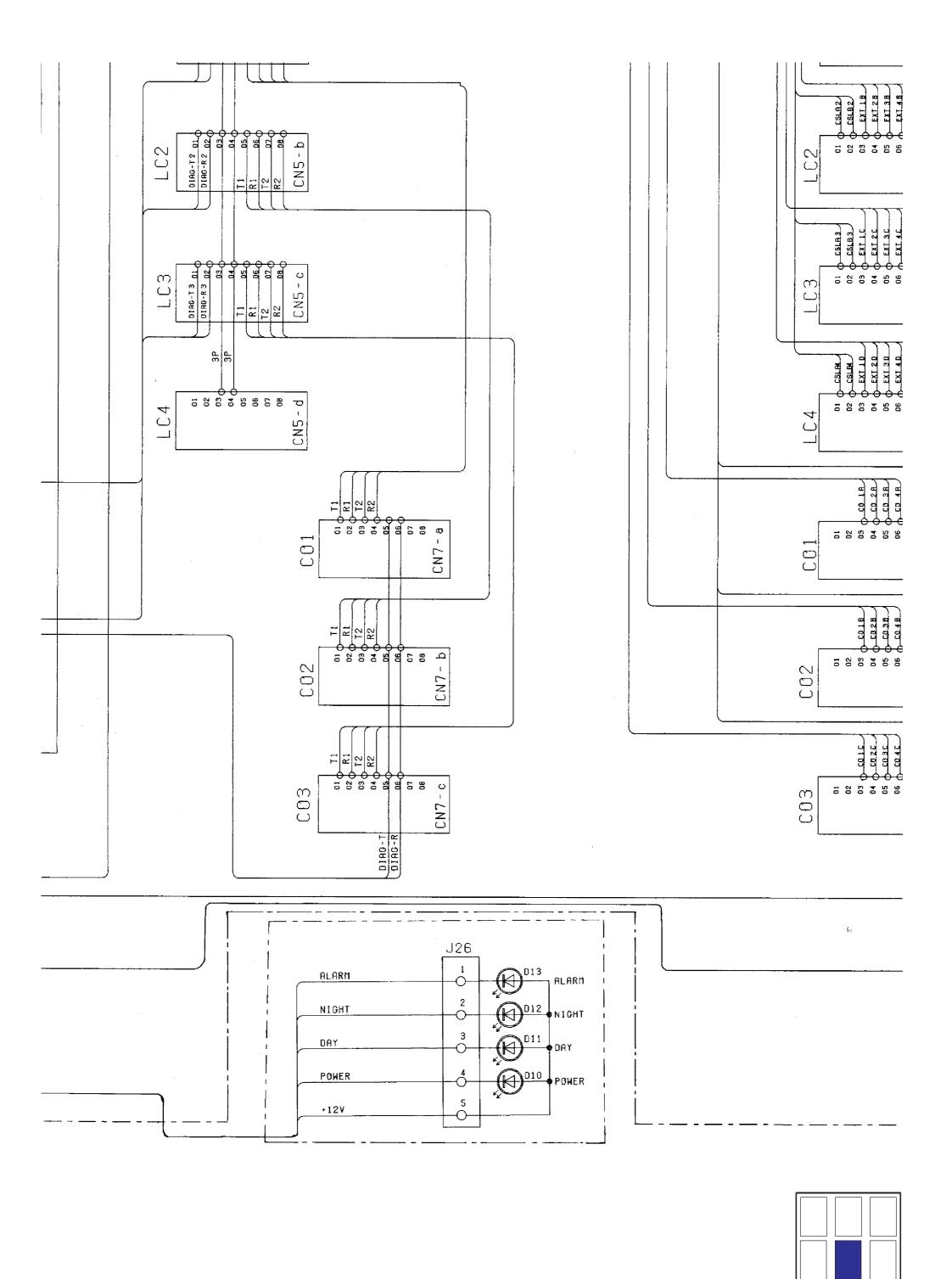
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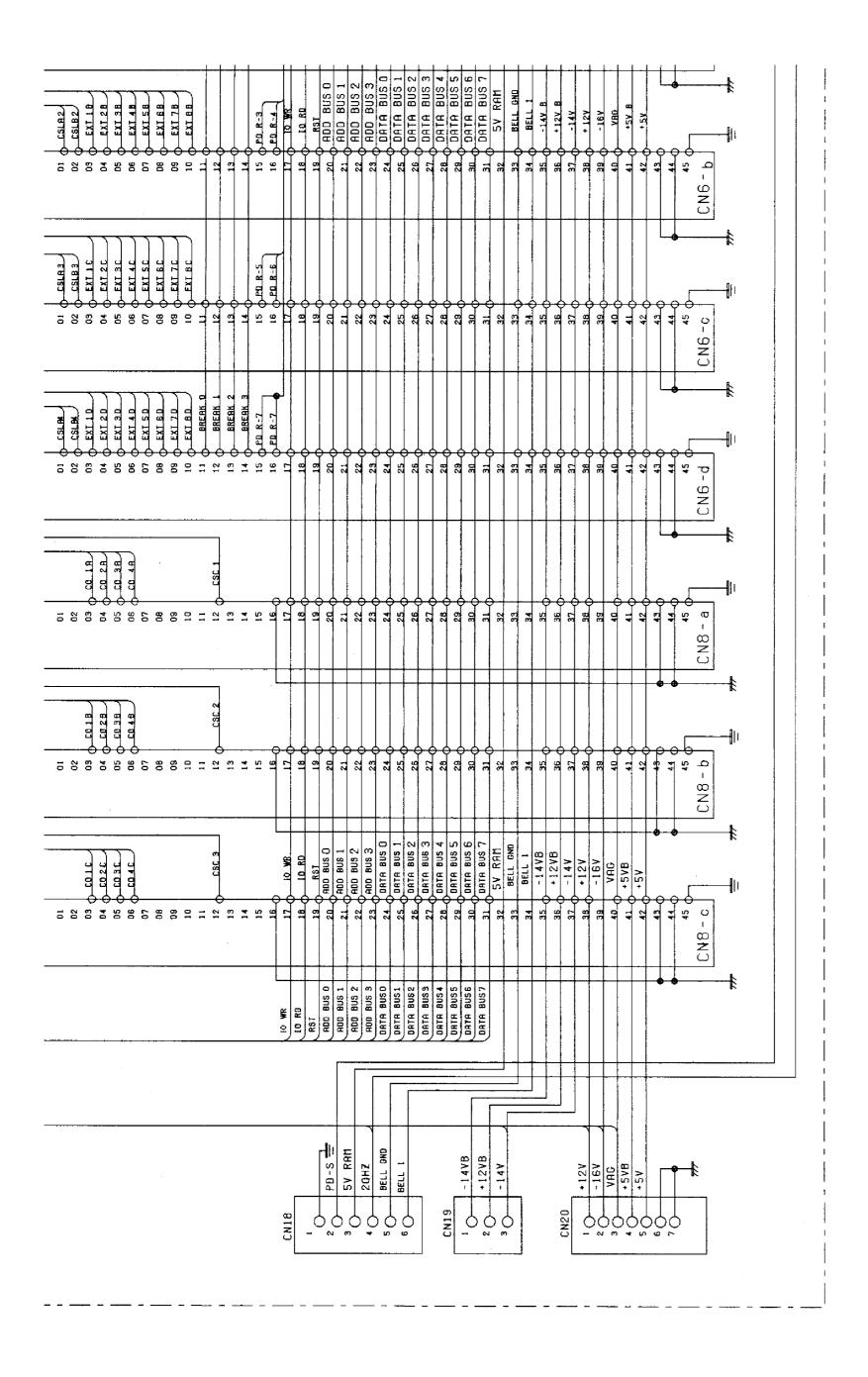


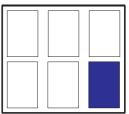


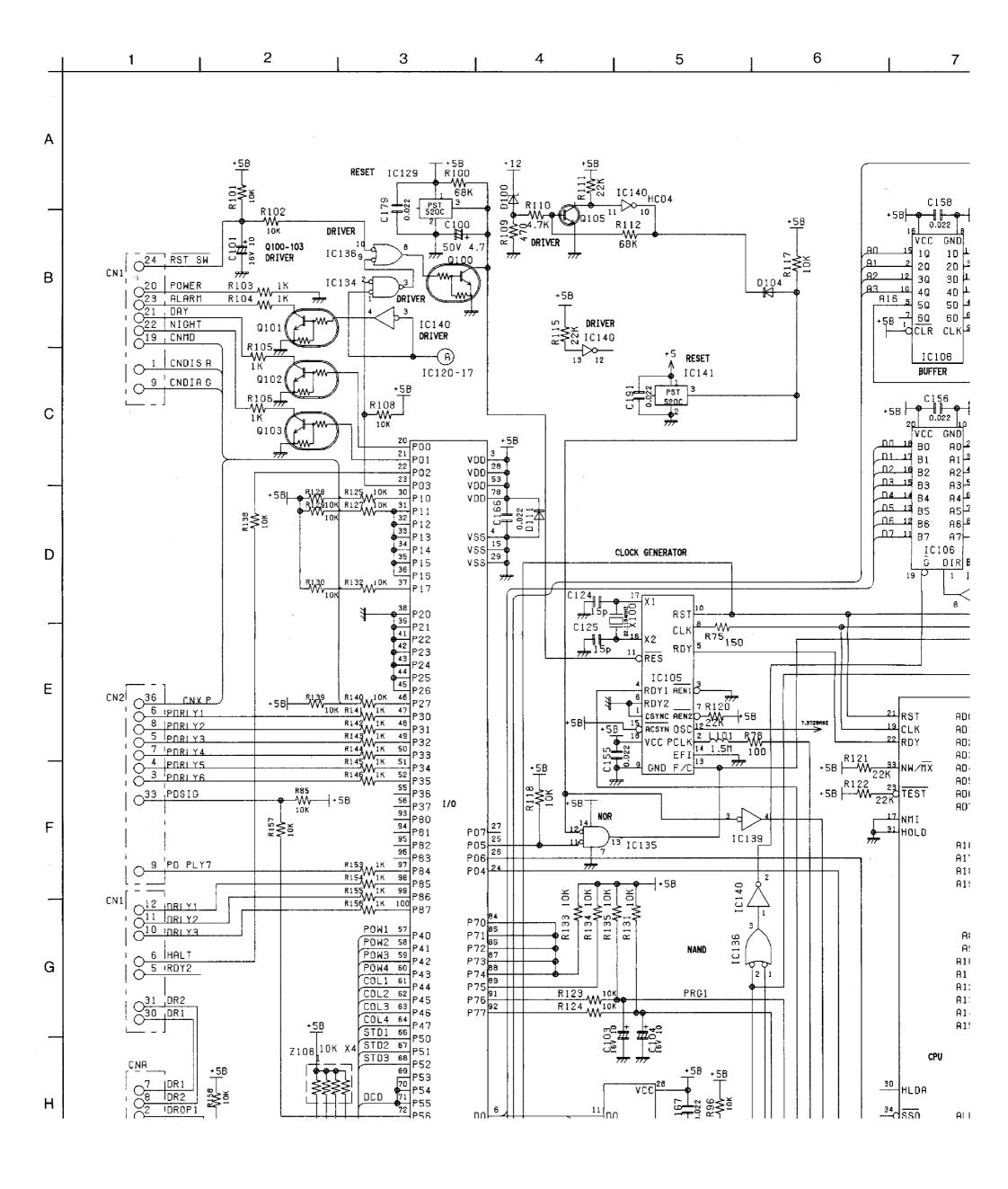


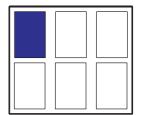










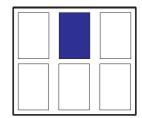


SCHEMATIC DIAGRAM (CPU)

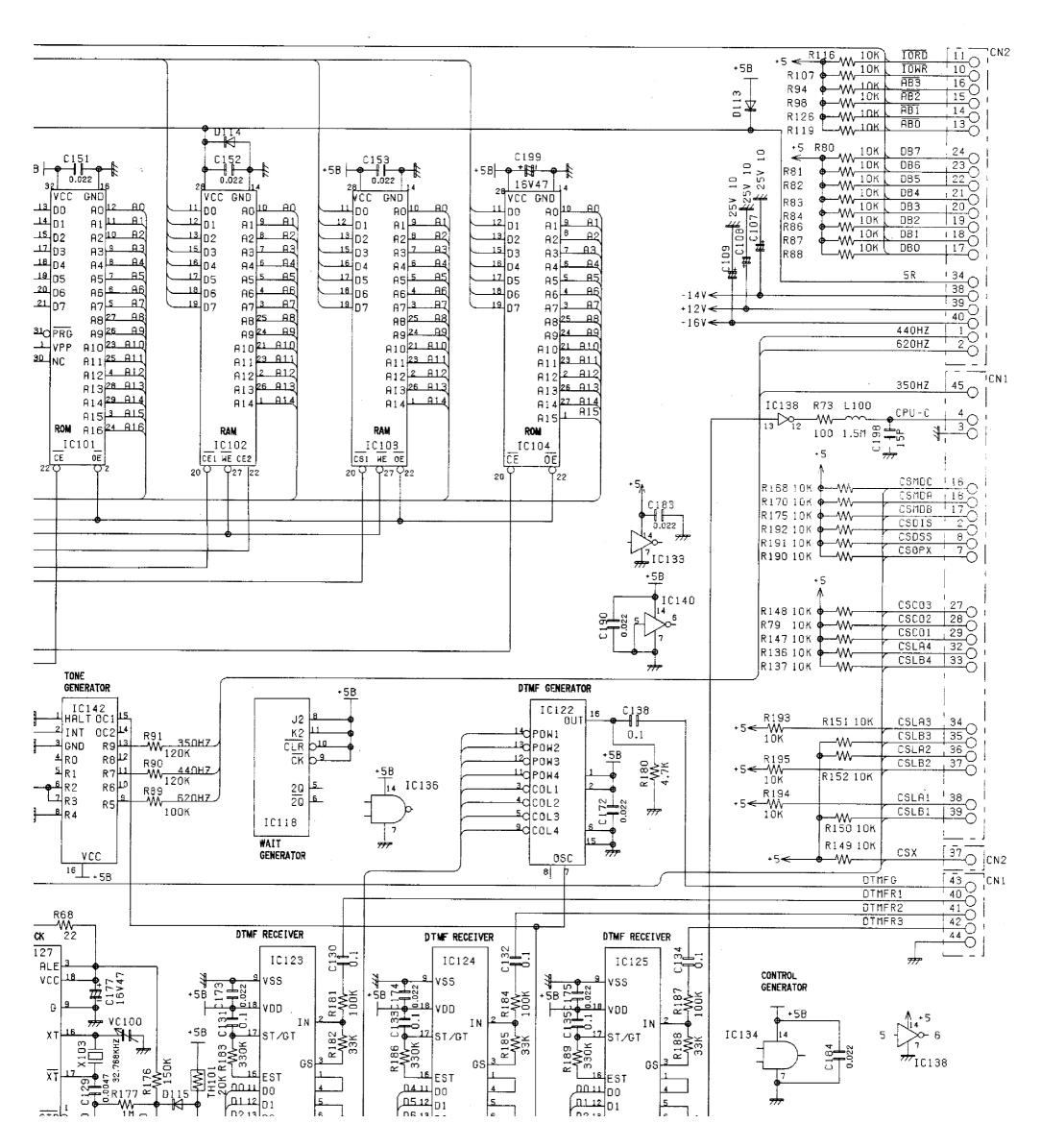
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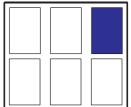
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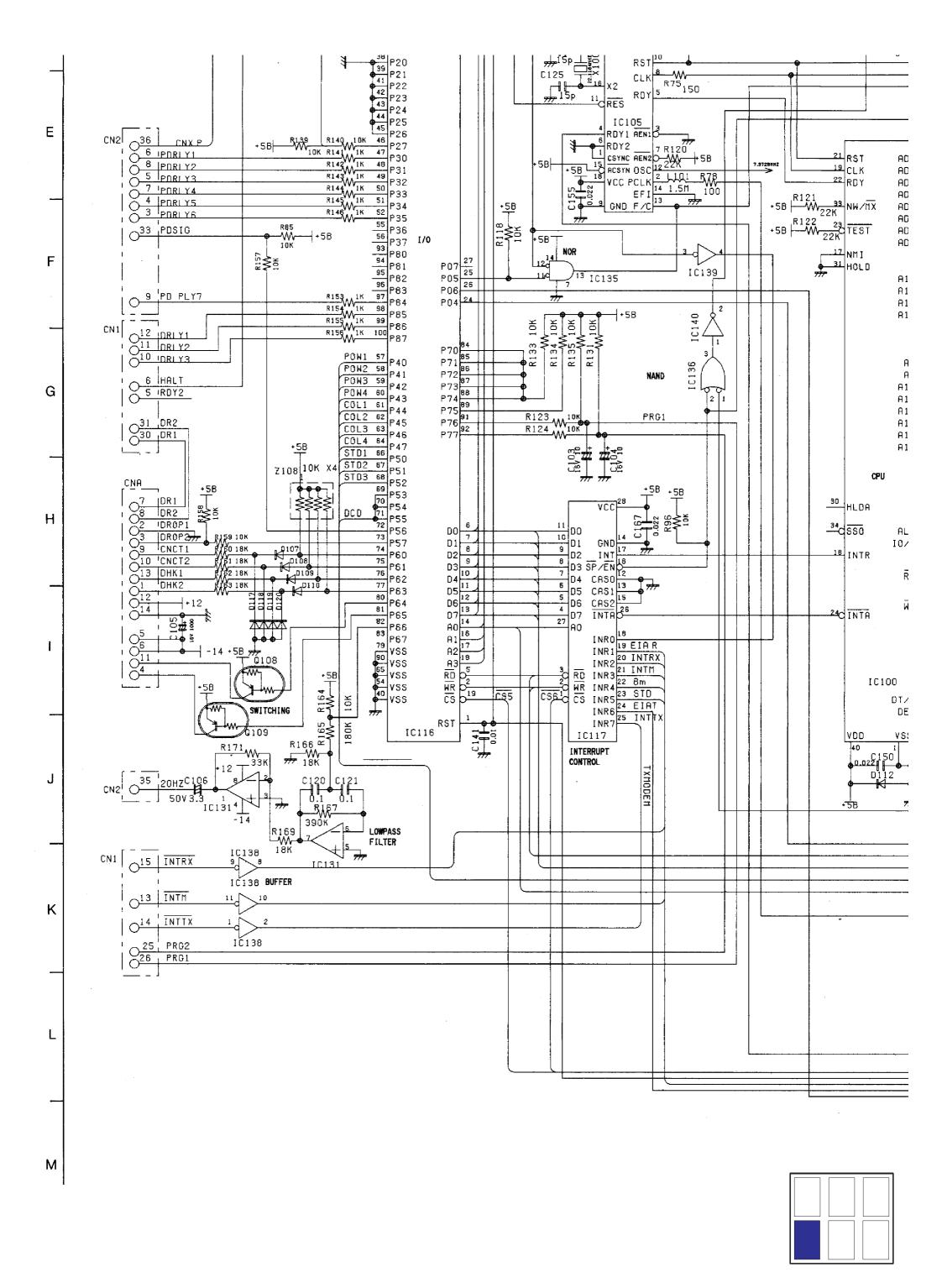
C158 GND 15 1Q 1 D 2 20 B1 17 20 <u>.82</u> 12 3Q B2|16 30 A2 <u>10</u> 40 4D A16 5 B4 14 5Q 5D R4 B5 13 60 6D A5 DO CLR CLK B6 12 14 D1 의A6 A1 15 D2 ₽7|11 **₽**|A7 A2 ם|די CE BUFFER IC108 DIR 18 D4 BUFFER <u>19</u>05 A5 7 20 D6 A6 +5B C156 21 D7 +5B |-+5B-201 VCC PRG VPP VCC GND GND A9 26. _B9 AO 17 A C110 1 nn 14 BO ворые по A10 23 A10 ΑD 80 DI 17 B1 B1 17 D1 A11 25 A11 A1 15 A2 AB1 30 NC Y2 þ<u>5</u> R1 81 D2_16_B2 B2 16 D2 A2 13 A3 A12 4 B12 Y3 07 AB2 R2 Y4 69 B3 15 D3 AB3 A13 28 A13 A3 ЯЗ A14 29 A14 B4 14_D4 ≞iA5 Y5 D14 A4 5 A 4 A15 3 A15 B5 13 N5 -8**⊣**A6 Y6 D¹² **A**5 A5 <u>D6 12</u> 86 86 12 06 INRD2 A7 Y7 DIB TORD ROM A16 24 A16 A6 86 Y8 DIE TOWR IOWR4 A8 <u> ⊓7 11</u> _{B7} B7 11 17 A7| 9 A7 IC101 20 BUFFER IC106 IC107 1 G CE 0E BUFFER G DIR BUFFER DIR Ğ IC136 O₁₉ 1 IC140 +5B | 16 VCC <u>G</u> 70 bis <u>Y1</u> | | | | | | | | | | | | | C161 <u>72</u> þ13 +5B| • <u>G1</u> <u>-5</u>d <u>G2</u> <u>Y</u>3 D¹² $\overline{Y4}$ p^{11} VCC ⁴d GL GND <u>Y5</u> þ10 4D0 re 1 D 20 12 81 19 CLK AD1 L5 2 B Y6 09 20 22 RDY 3Q 6 A2 AD2 14 3 D С ¥7 40 15 A3 BD3 TONE 40 IC113 50 5 R4 AD4 12 GENERATOR 33 NM ∕<u>M</u>X 5D DECORDER 60 |16 A5 60 IC142 AD6 To 2 AG HALT OC1 70 70 8Q |18 B7 2 INT 0C2 14 AD7 8 D 17 NM I -3 GND MMI HOLD TO OF CUR R9ľ-VCC IC111 4 RO R8|12 **ADDRESS** R90 $\overline{\underline{1}}$ \hat{b}^2 A16 38 5 R1 R7|11| ŌĒ LATCH A17 37 R89 6 <u>Y2</u>|3_C02 6 R2 7 R3 R6|10| A18 36 <u>Y4</u> 5 COL A19 Y5 06 Y6 07 LA4 ·5B|-VCC GND <u>Y7</u>08 LB4 VCC <u>Y8</u> p<u>9 LA3</u> 10 15 A8 14 10 A8 Y9 Du LB3 20 6. 99 2 20 A9 Y10 01 LA2 30 a A10 A10 23 A0 _8| 3D A10 6 <u>Y11</u> J³ LB2 40 12 A11 A11 22 A1 13 4D A11 5 Y12 04 LA1 812 21 A2 5g | 16 A12 17 50 R12 <u>Y13</u> (15 LB1 60 | 5 A13 813 20 A3 CLOCK A13 **-4** 60 80 CS1 Y14 06 Y15 07 CSX 70 A14 70 2 914 IC127 80 19 A15 ALE 815.19 CS2 IC112 ADDRES no **ADDRESS** IC115 DECORDER CPU <u>D1 13</u> D1 12 02 X 103 VC100 VC100 VC100 _02_ 11 91 30 HLDA <u>na 11/03</u> AO A AO IC139 L102 <u>34</u> □ SSO AL 5 A1 ALE 25

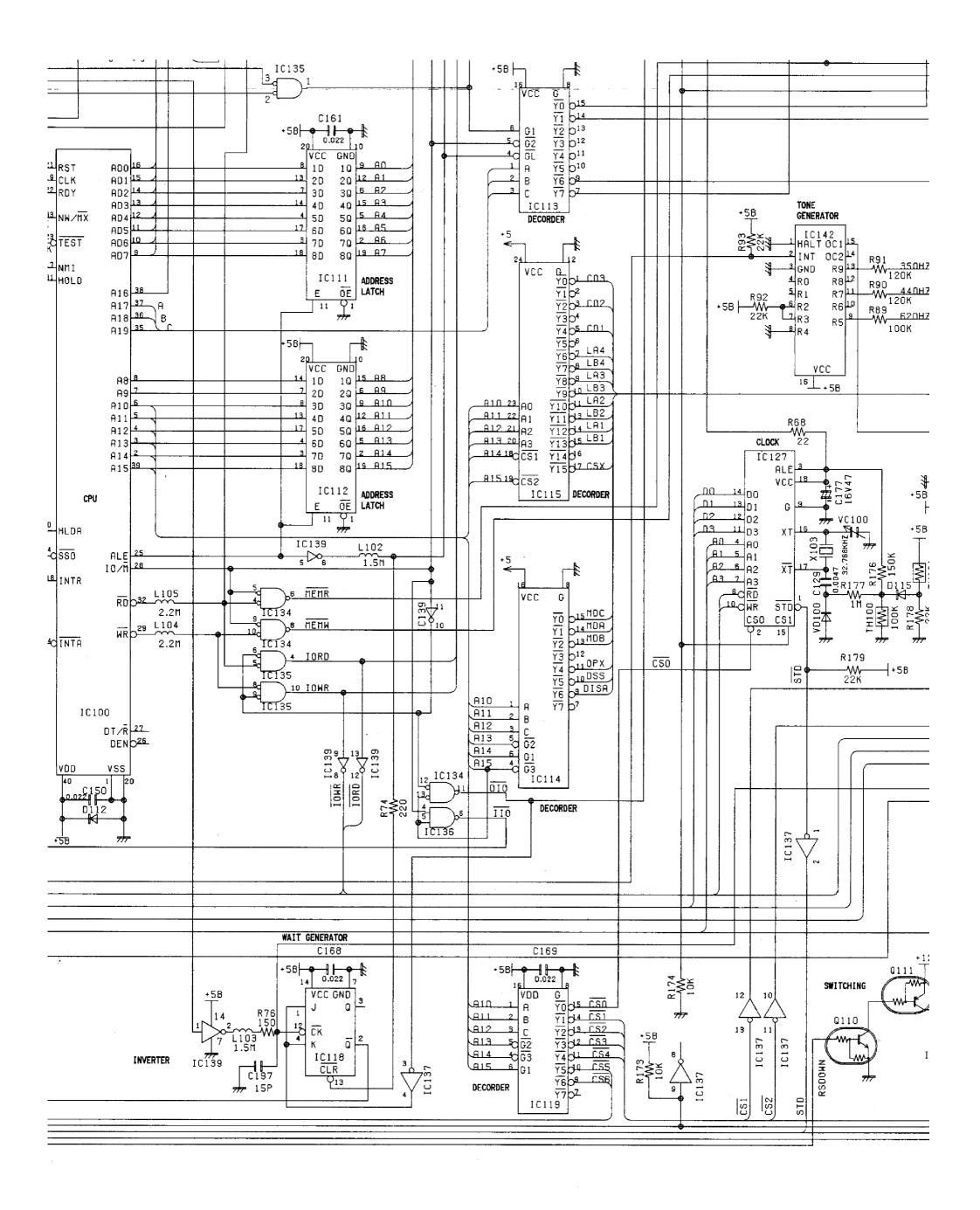


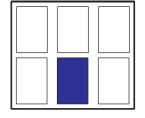
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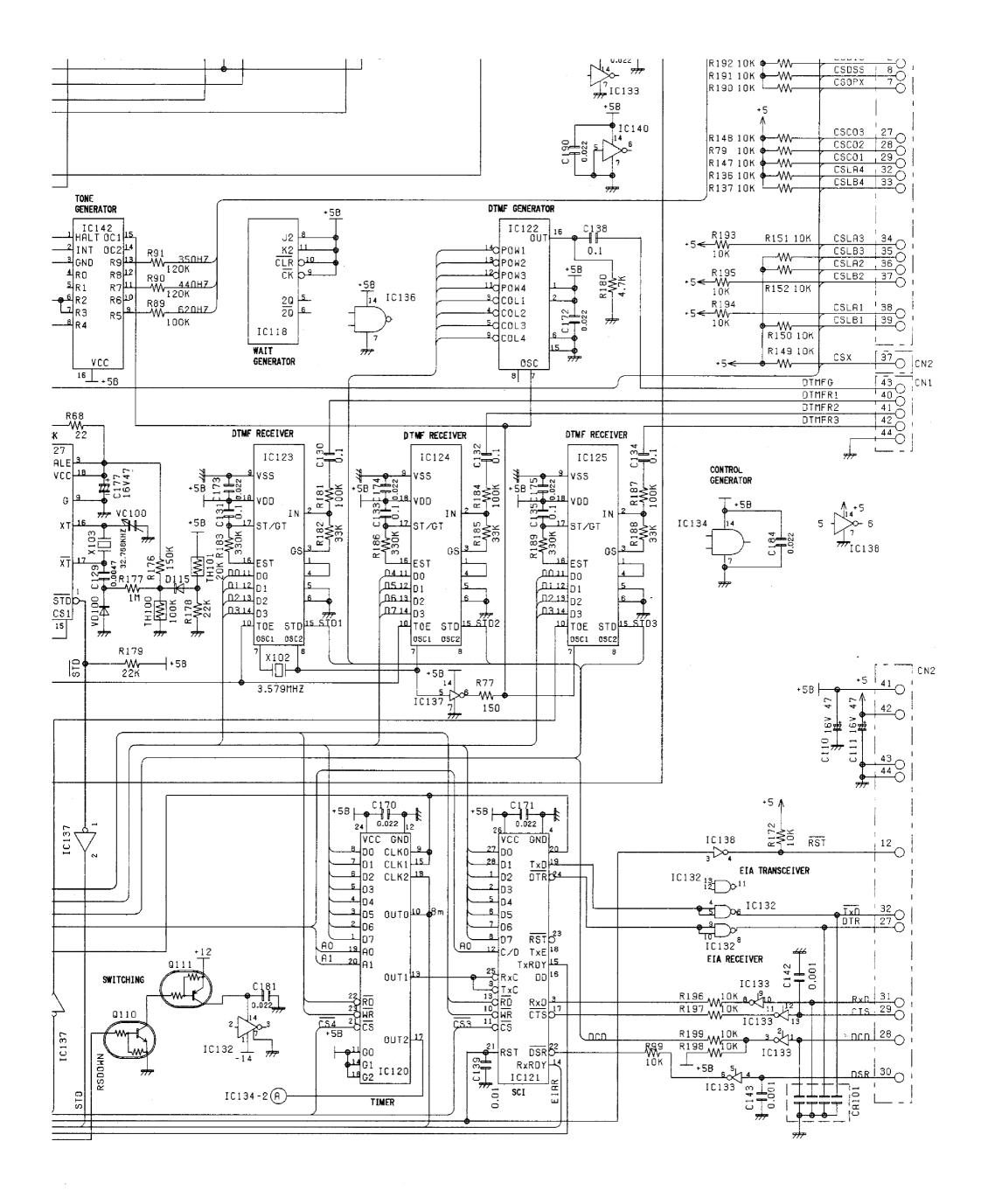


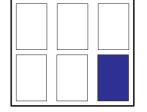


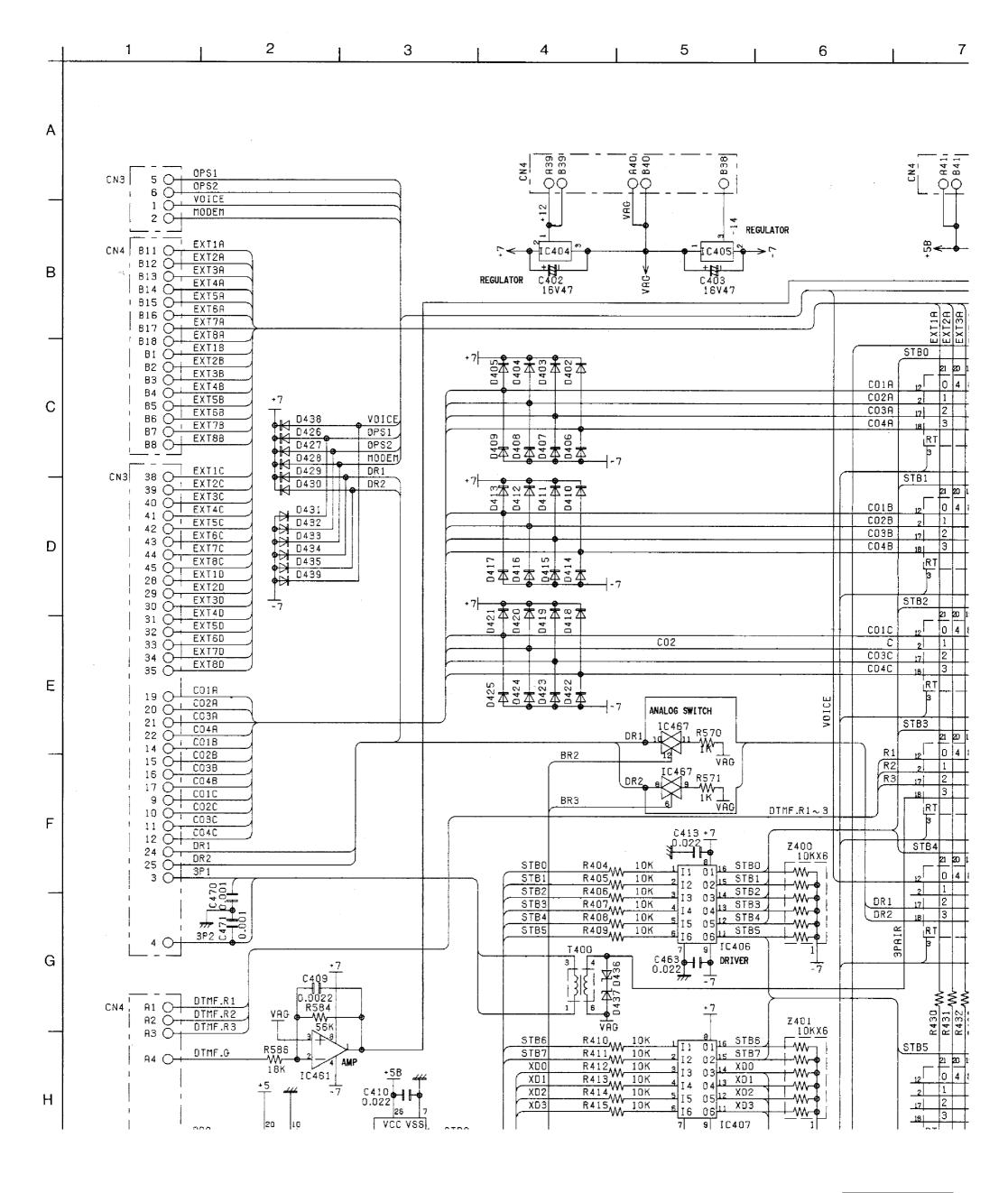


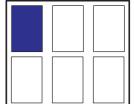












SCHEMATIC DIAGRAM (CROSS POINT SWITCH)

10

12

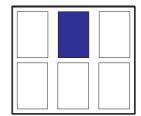
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11

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8

A411 B411 844 844 843 843 R42| B42| A45₁ B45₁ 26 26 36 15 14 S 0000 2222 99999999999 99 QQ QQ C404 16V22 16V22 EXT7D EXT8D OPS1 OPS2 A B C TEST EXT2A EXT2A EXT3A EXT4A EXT58 EXT6B EXT78 EXT78 EXT1C EXT2C EXT3C EXT4C EXTSC EXTSC EXT7C EXT8C EXT5D EXT6D 10 13 16 14 15 21 20 19 1 10 13 16 14 15 10 13 16 14 15 21 20 19 1 21 20 19 10 13 16 ST 1014 ST 1014181C 0 4 8 C ST 1014181C ST 10141810 lo. 4 8 C 0 4 8 C 0 4 8 C 10 1 10 1 **L**D 11IC410 lΕ IC411 IC412 1E 2 التد |3| |3| 1F |3 | 181 181 22 6 7 110 1 1 7 -7 C451 ABCDE ABCDE A B C D E RT ABCDE 0.022 10 13 16 14 15 10 13 16 14 15 10 13 16 10 13 16 14 15 21 20 19 1 21 20 19 1 ST 1014181C 0 4 8 C ST 1014 0 4 8 C ST 1014181C 0 4 8 C 0 4 8 0 ID. 1 1D 1 1 D 1 1 IC414 1E I 2 IC415 μEΙ 1E I 2 17 3 3 3 3 181 ABCDE RT ABCDE RT ABCDE RT ABCDE 11 10 13 16 14 15 10 13 16 14 15 10 13 16 14 15 ST 1014181C 10 13 16 21 20 19 1 21 20 19 21 20 19 1 21 20 19 1 ST 1014181C ST 1014181C 0 4 8 C 0 4 8 C 0 4 8 C ST 1014 0 4 8 C ם בן 1 1 D 1 | 1 10 1 IC418 ÌΕ IC419 IC420 IC421 lΕ 2 2 17 17 3 18 181 110 P ABCDE ABCDE ABCDE ABCDE -7 C453 0.022 10 13 16 14 15 10 13 16 14 15 21 20 19 1 0 4 8 C 10 13 16 14 15 21 20 19 1 21 20 19 1 10 13 16 0 4 8 C ST 1014 ST 1014181C ST 1014181C C 4 8 C 0 4 8 C 1 ID 1 10 1 1D 1 IC422 ΙEΙ IC423 2 2 ħΕΙ 2 IC424 ĮΕ Ì 2 17 17 3 1 F |3| 3 3 181 22 0 7 110 7 -7 C454 ABCDE ABCDE ABCDE RI ABCDE 34 0.022 21 20 19 1 10 13 16 14 15 10 13 18 14 15 10 13 16 14 15 10 13 16 21 20 19 1 21 20 19 21 20 19 1 ST 1014181C STho 0 4 8 C ST 1014181C ST 1014181C 0 4 8 C 0 0 4 8 C ID. 1 1 t D 11 1 10 11 | ___2 IC426 IC427 þΕΙ 2 1 E IC428 IC429 17 17 ____3 1F 3 18 181 18 l ABCDE ABCDE A B C D E ABCDE -7 C455 0.022 ****** **** **** ≩≹≹≹[∞] \$\$\$\$<u>\$</u> R430 R431 R432 R433 R442 R443 R444 R445 R438 R439 R440 R441 R446 R447 R448 R449 R450 R451 R452 R453 R458 R459 R460 ST 1014181C 10 13 16 14 15 ST 1014281C 10 13 16 14 15 ST 1 01 41 81 C 21 20 19 1 0 4 8 C 21 20 19 1 0 4 8 C 21 20 19 1 0 4 8 C 10 13 16 1 ST 10141 21 20 19 0 4 8 C 1 2 3 ID. 1 101 1 ID. 1E IC430 1E 2 3 IC431 1E 2 IC432 IC433 2 17 17 1 F 3 1F RT ABCDE 18 18 RT RTILLARINELLI



9 B 5 5 7

亚-7

10 13 16 14 15 ST 1014181C

R458 M R460 M R460 M R403 M L118 3.92K R527 3.027 25 0.027

3.92K R526 R525 C425 WW

+7

RT

21 20 19 1 0 4 8 C

R454 R455 R456 R457

15 12 13 14 16 17 18 STB4 15 14 10 11 2 XD5 R521 W 3.4K C420 0.001 VAG -EXT70 EXT8D R522 3.4K 0PS1 OPS2 13 C421 A B C D 16 + 7 6 5 3 4 8 - 13 + 16V -7 C465 1000 0.001 TEST MODEM EXT10 EXT20 EXT30 EXT40 EXTSD EXT6D DTMF.G 10 13 16 14 15 7 15 14 10 11 ×03 XD4 21 20 19 7 15 14 10 11 0 4 8 0 ST 1014181C MR493 WR494 WR495 WR496 R505 WR506 WR507 WR508 WR508 1 1 D 1 I C 2 4 4 8 IC413 2 4 4 7 ĮΕ! 2 .17 A B C D 15 7 6 5 3 4 6 7 C460 A B C D 6 5 3 4 8 7 -7 ABCDE RT 143 1<u>1</u>1 - 7 _7 C460 0.022 10 13 16 14 15 5T 1014181C 7 15 14 10 11 4 8 C 21 20 19 1 0 4 8 7 15 14 10 11 0 4 8 C -WR509 -WR510 -WR511 -WR512 1.0K W R498 W R498 1 10 1 10 1 IC IC417 2 4 5 0 1 2 4 5 1 2 1E [17 WR500 1F A B C D 166+7 6 5 3 4 8 1 2 -7 C461 0.022 A B C D 16 7 6 5 3 4 8 7 A B C D E RT 22 143 +7 -7 7 15 14 10 11 10 13 16 14 15 ST 1014181C R513 WR514 WR515 WR516 WR5 21 20 19 15 14 10 11 WR501 WR502 WR503 WR504 143 0 4 8 C þΟ 1 1 [[2 10421 ÌΕ 2 4 5 4 1 .17 3 1F A B C D 15 7 6 5 3 4 5 7 -7 C462 0.022 RT ABCDE 22 | 7 9856 1<u>11</u> -7 10 13 16 14 15 ST 1014181C 21 20 19 1 -|VAG VAG 0 4 8 0 7 -7 -7 io! 1 1E 2 IC425 3 1F| ⊣VAG 22 BUFFER RT ABCDE TEST <u>11</u> 10468 -7 10 13 16 14 15 AMP 21 20 19 1 7 15 14 10 11 0 4 8 C R575 33K —W— ST 0 4 8 0 TEST | IC C427 0.001 10 1 R517 1.15K R518 1.15K 2 4 5 5 IC429 C448 1E | 2 17 3 1 0.022 3 1F ANALOG SWITCH [A B C D 6 5 3 4 8 7 7

VAG

 $\frac{-7}{2}$

IC467 13

BRO

R534 9 2.2k

VAG

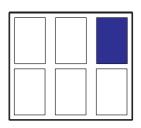
22K IC466

C447 0.022 VAG -7

C429 0.001

R539

R535

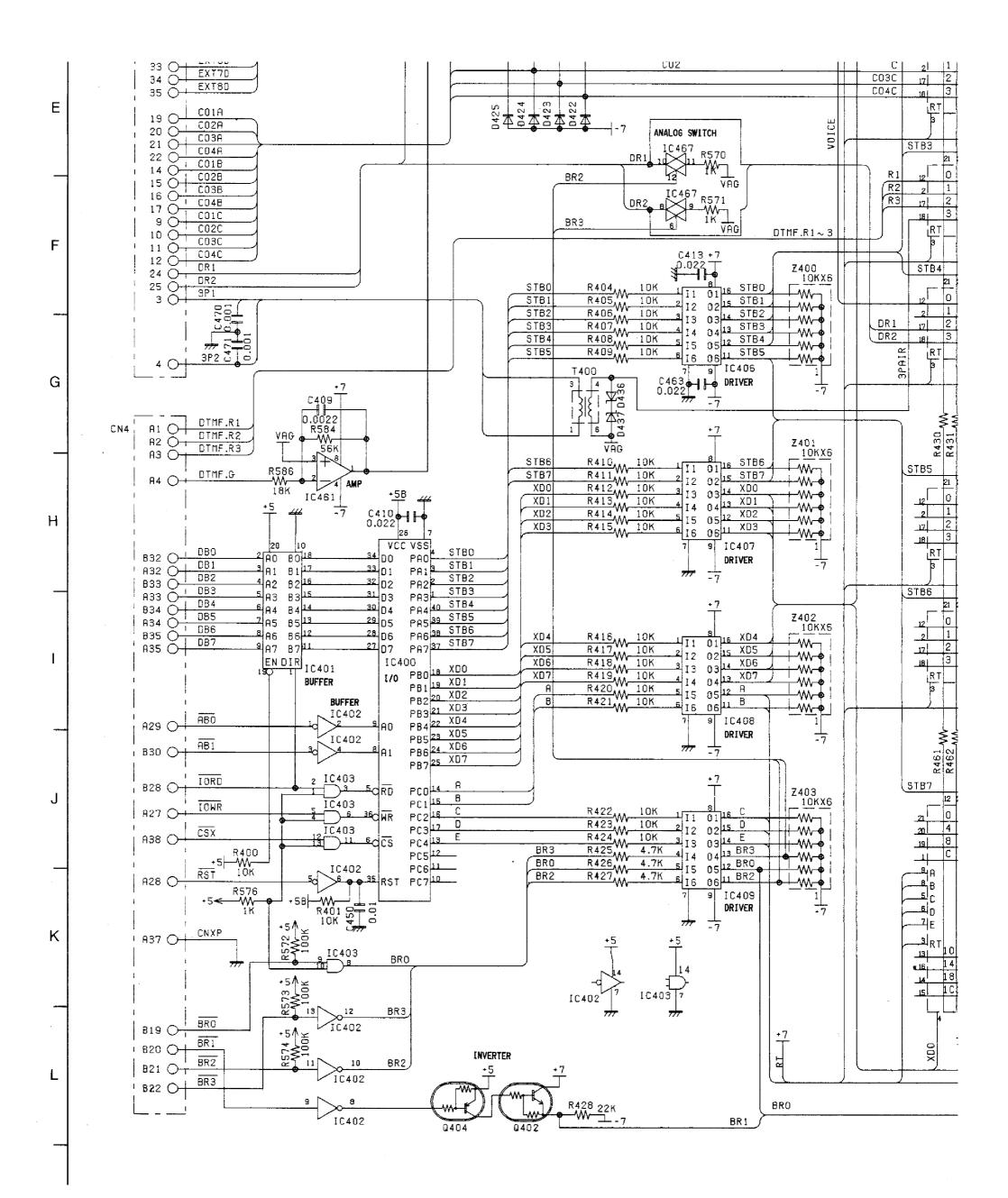


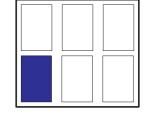
CN4

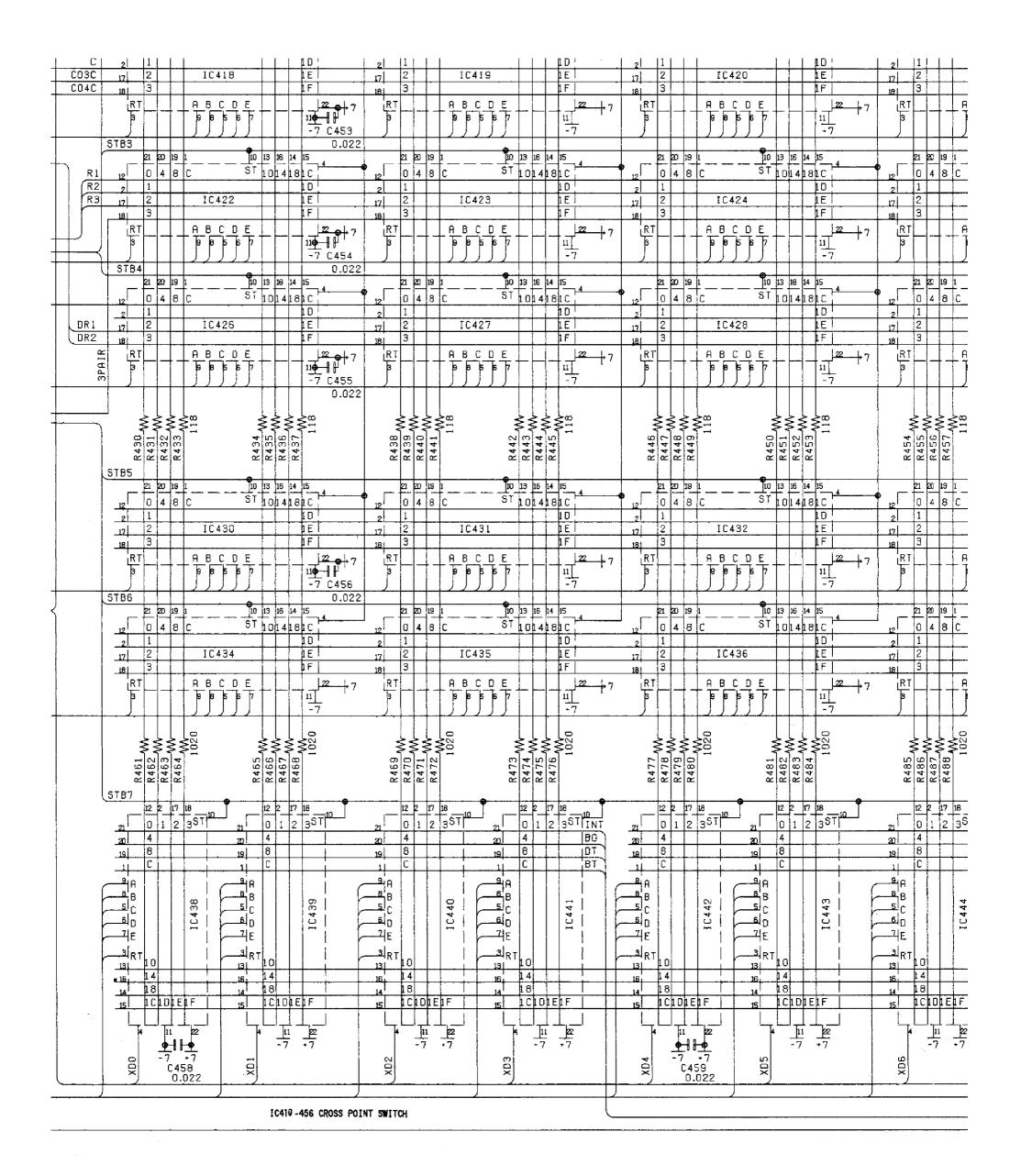
R549 C431 800 0.1

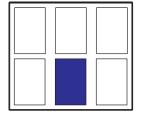
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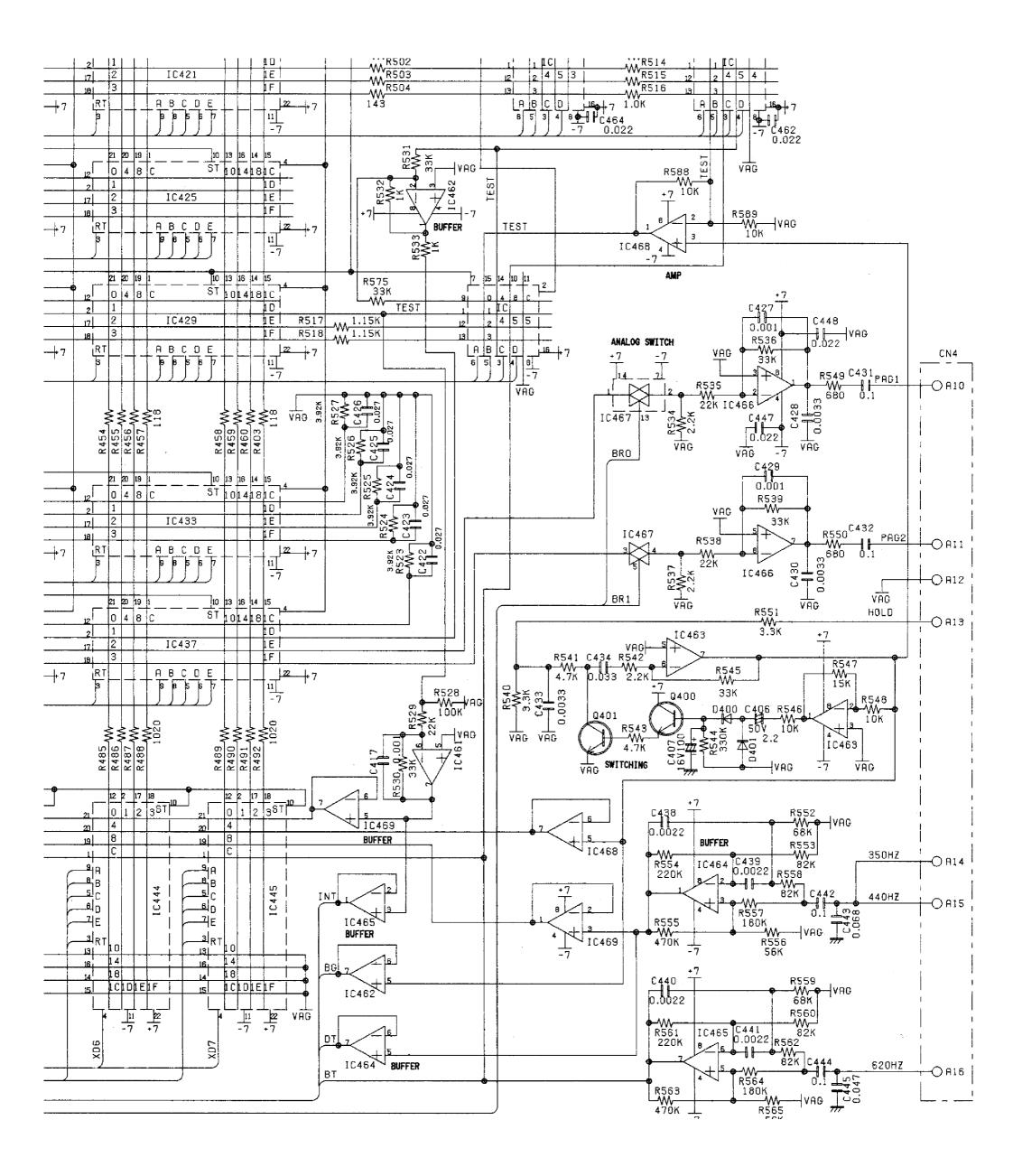
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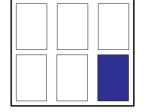


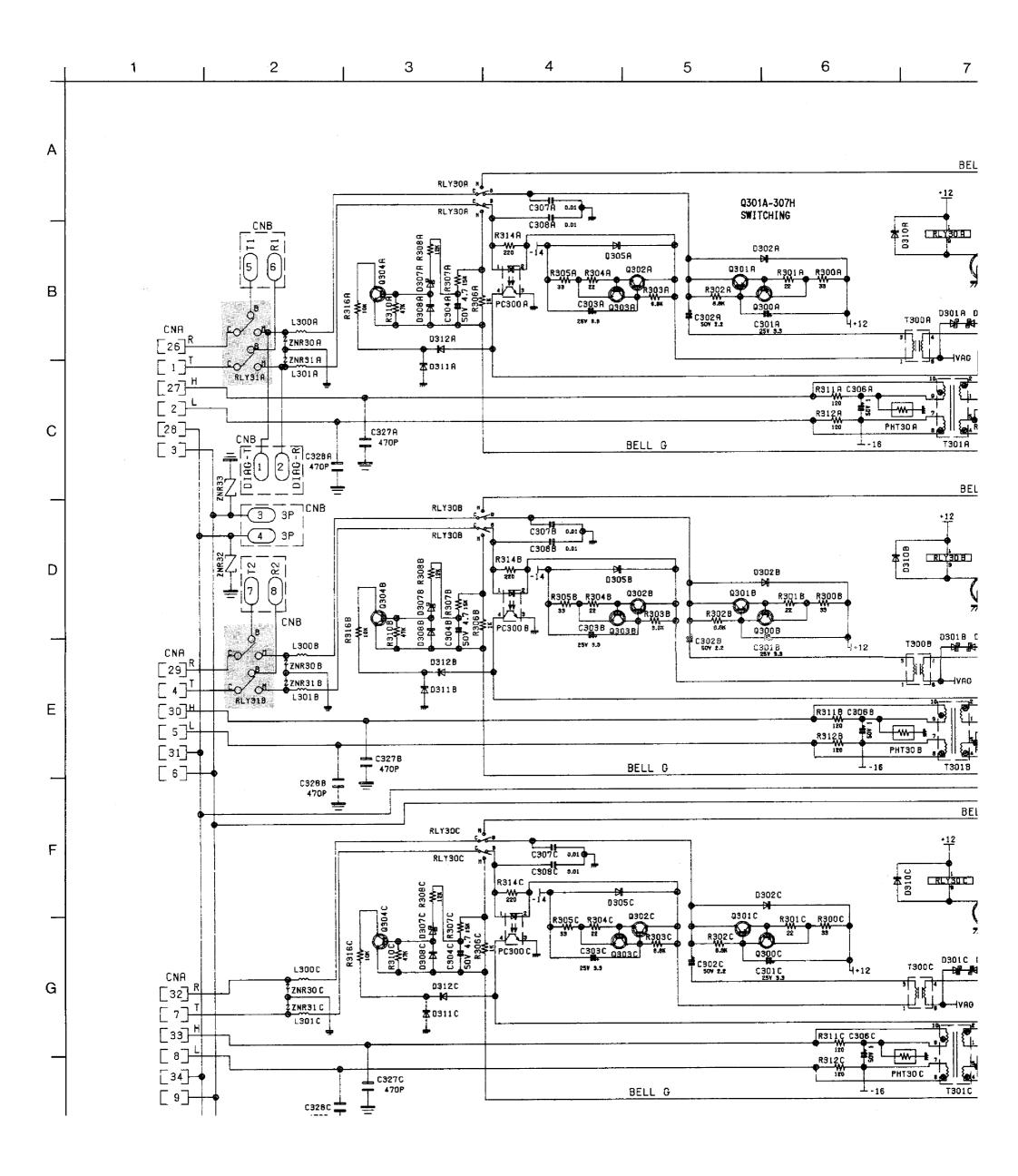


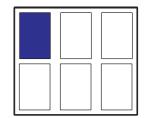




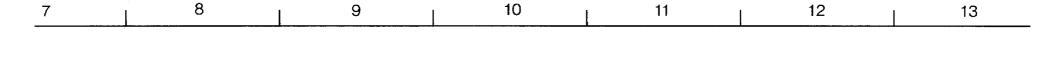


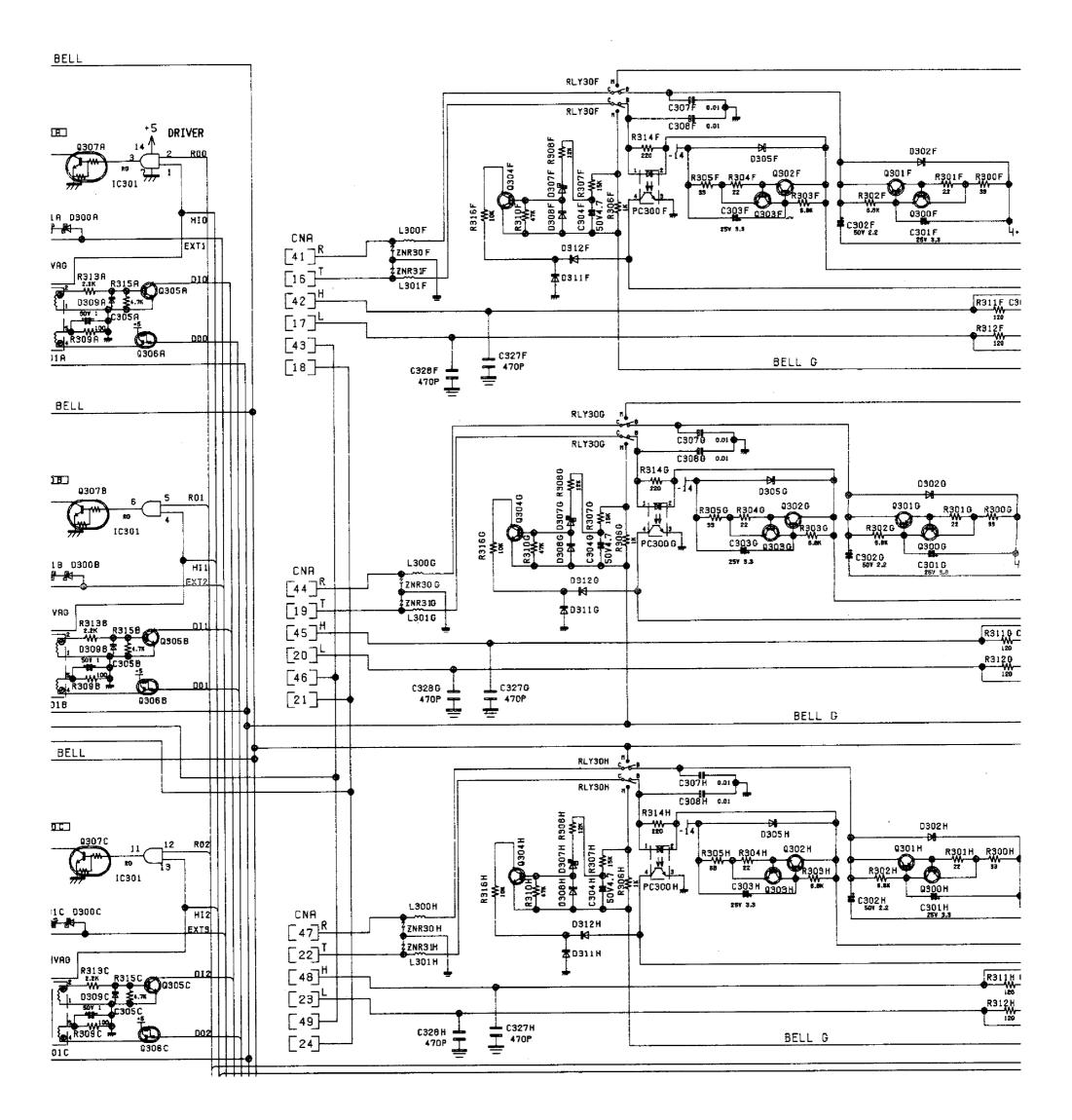


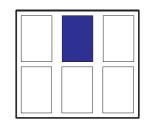




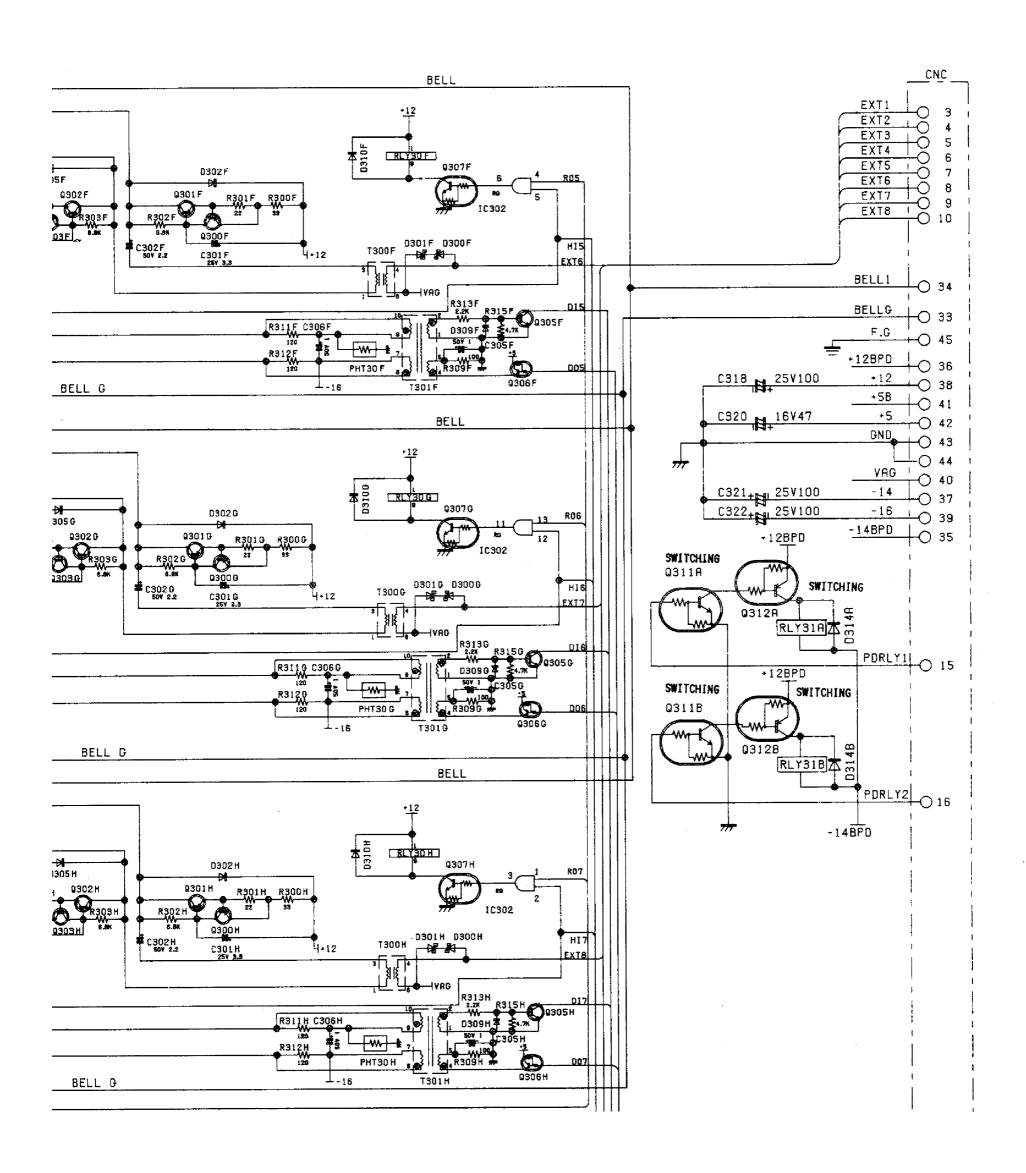
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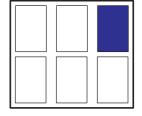


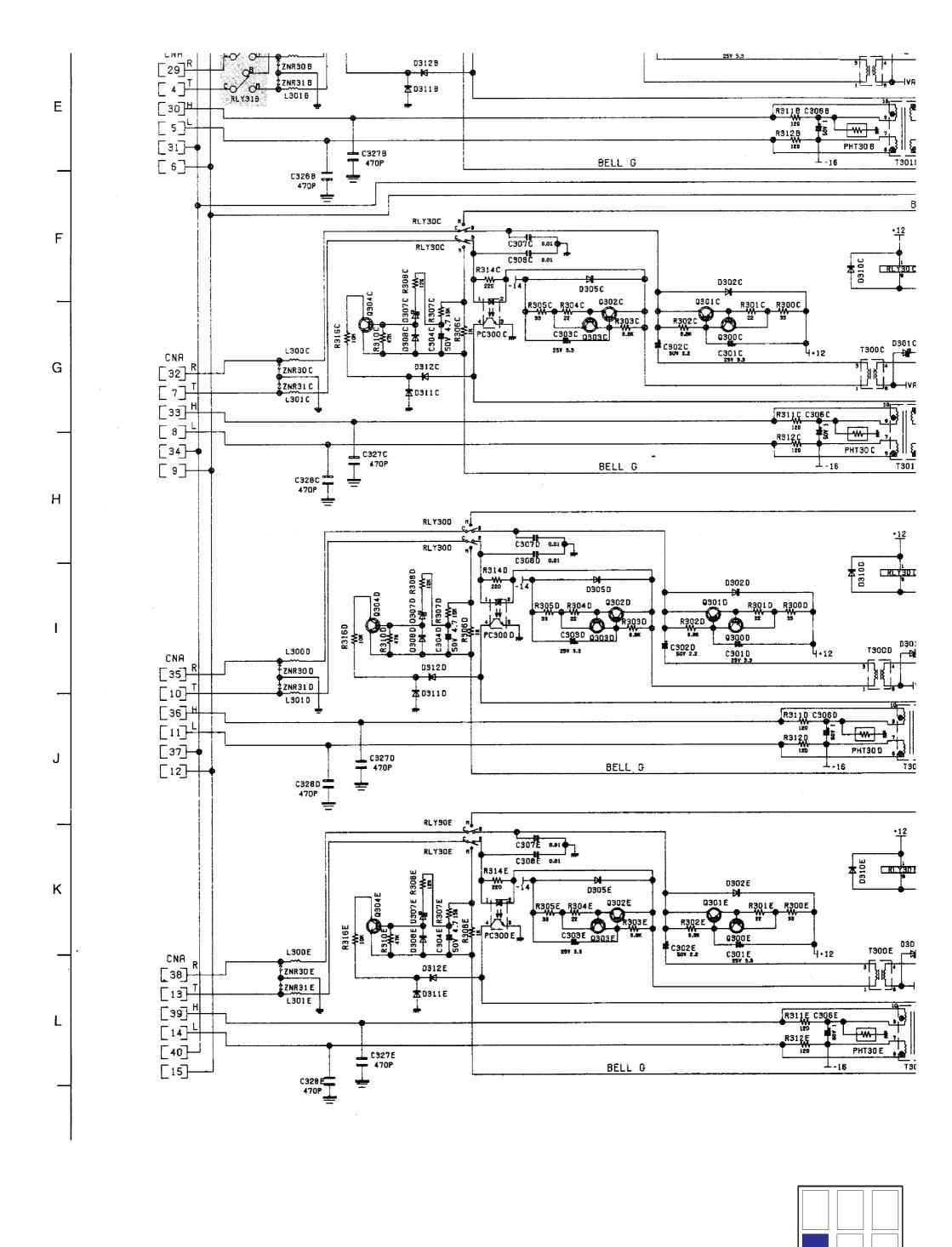


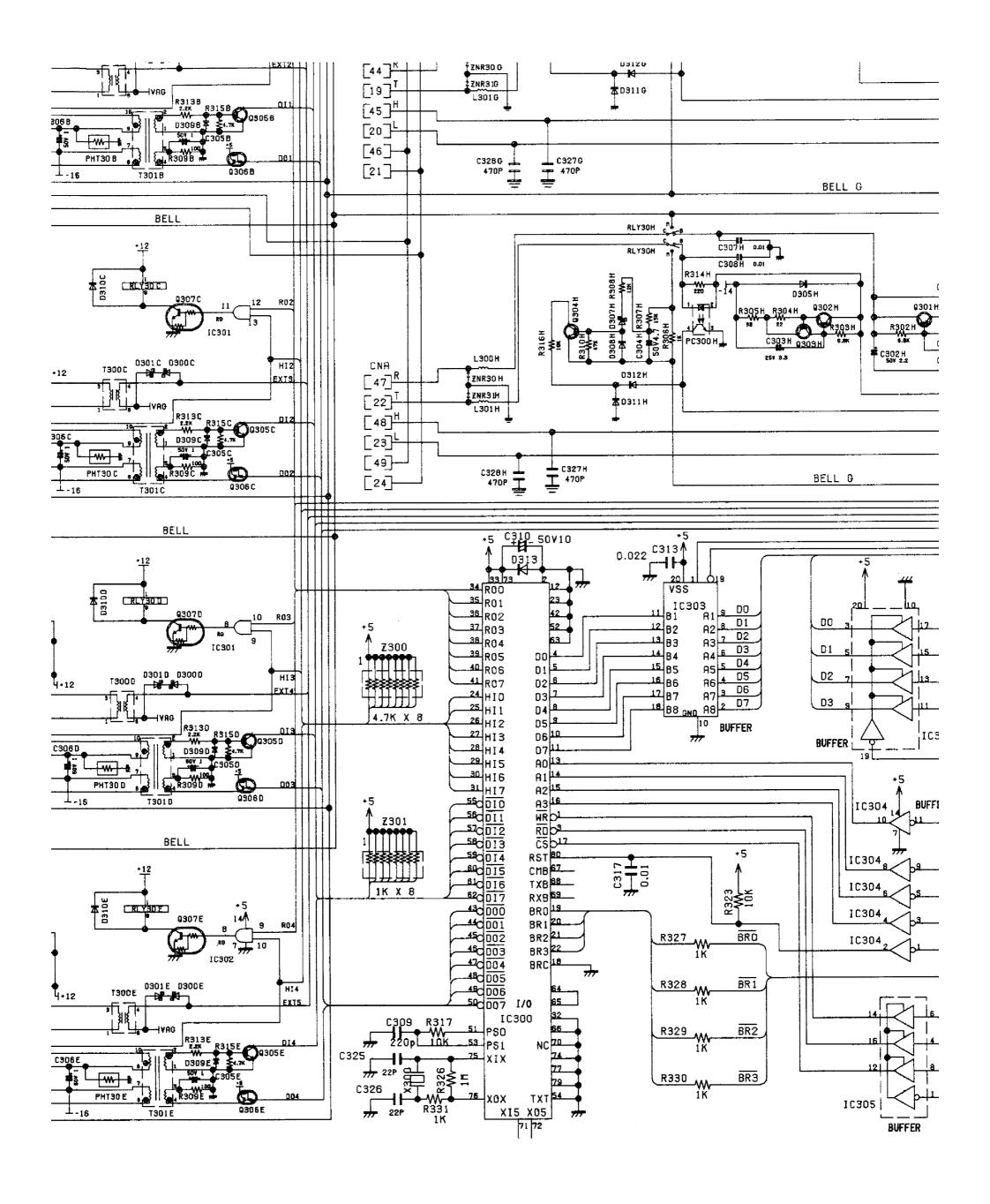


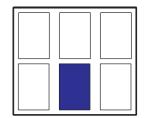
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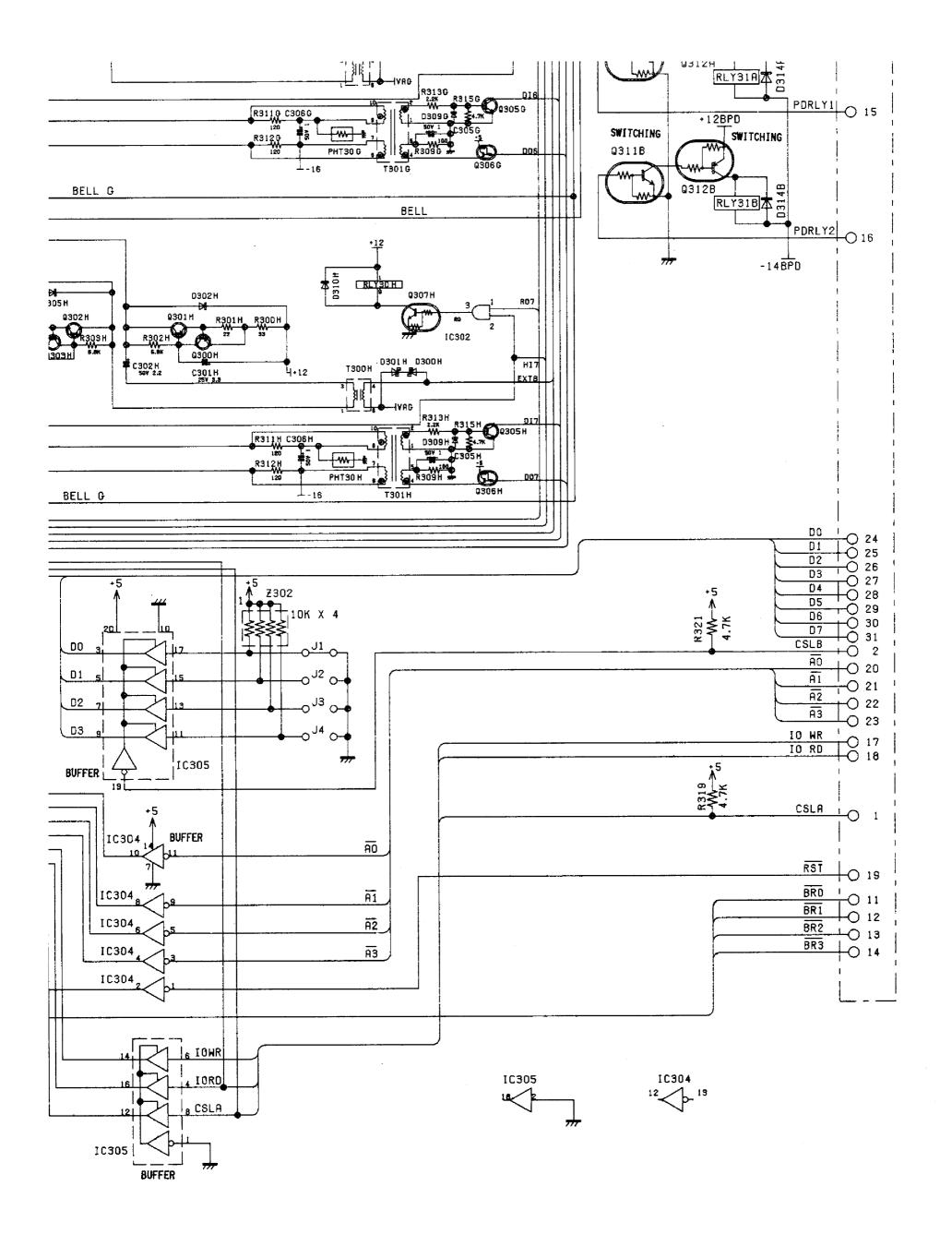


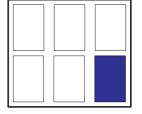


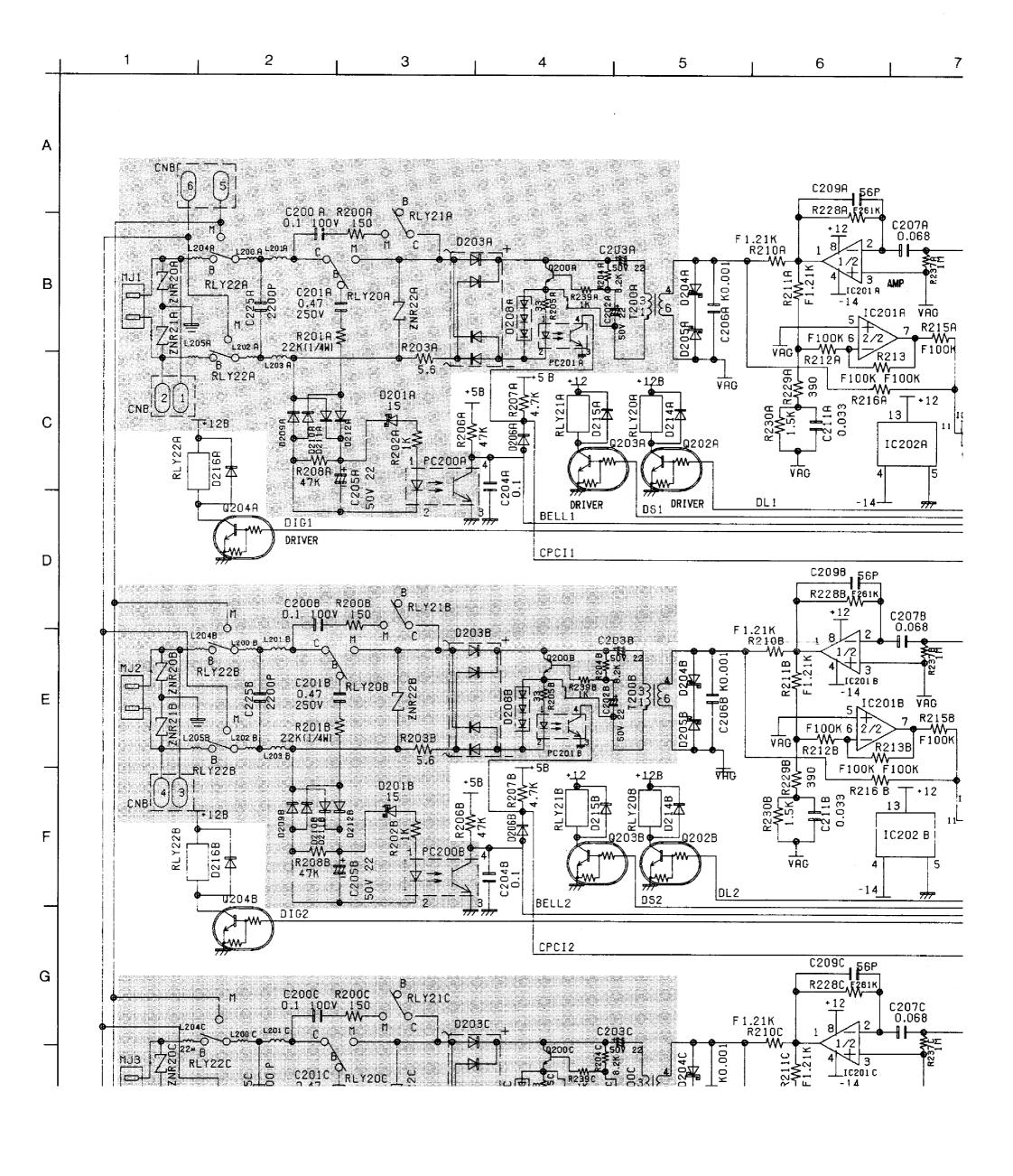


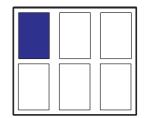






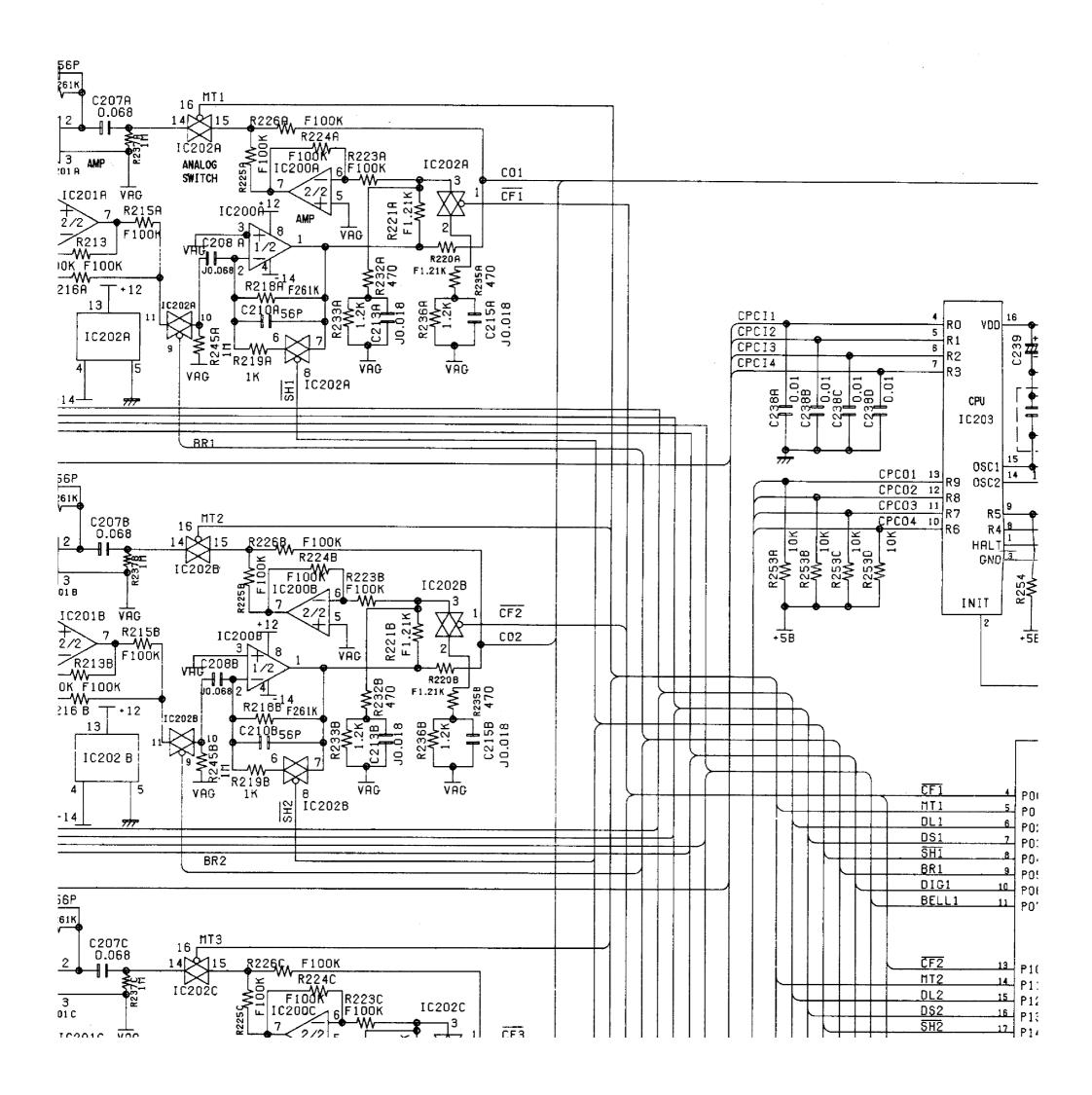


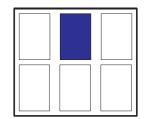


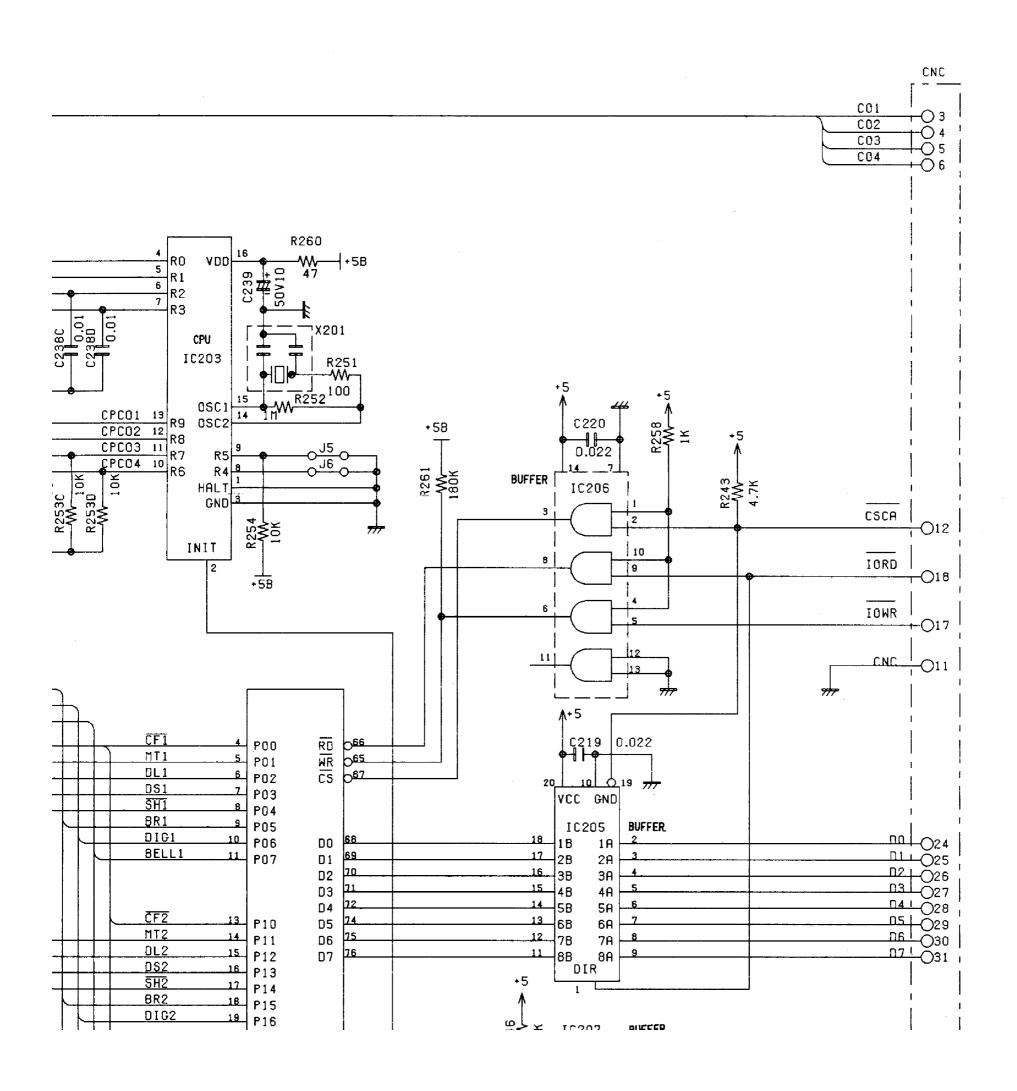


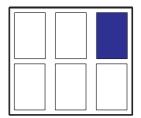
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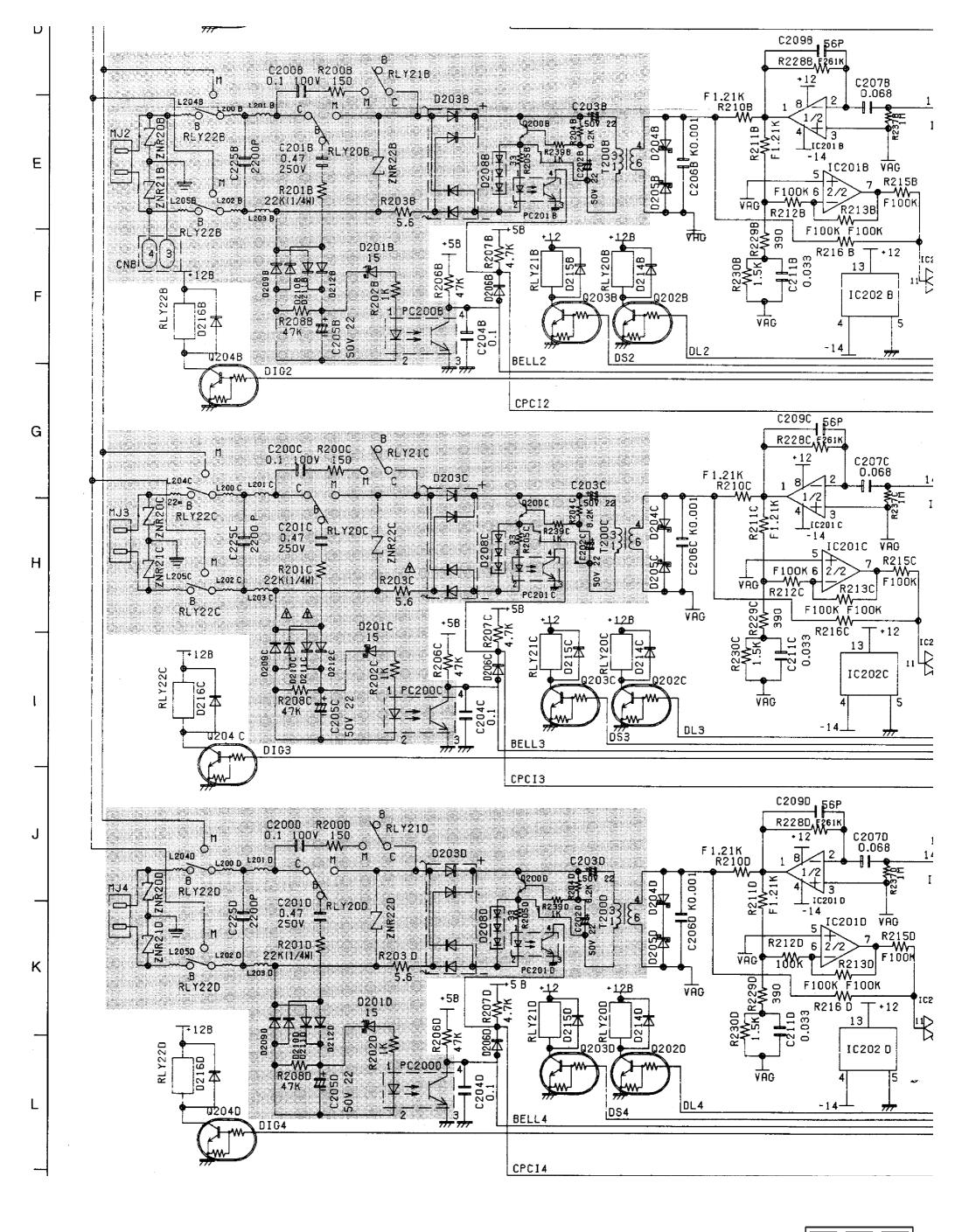
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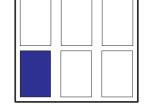


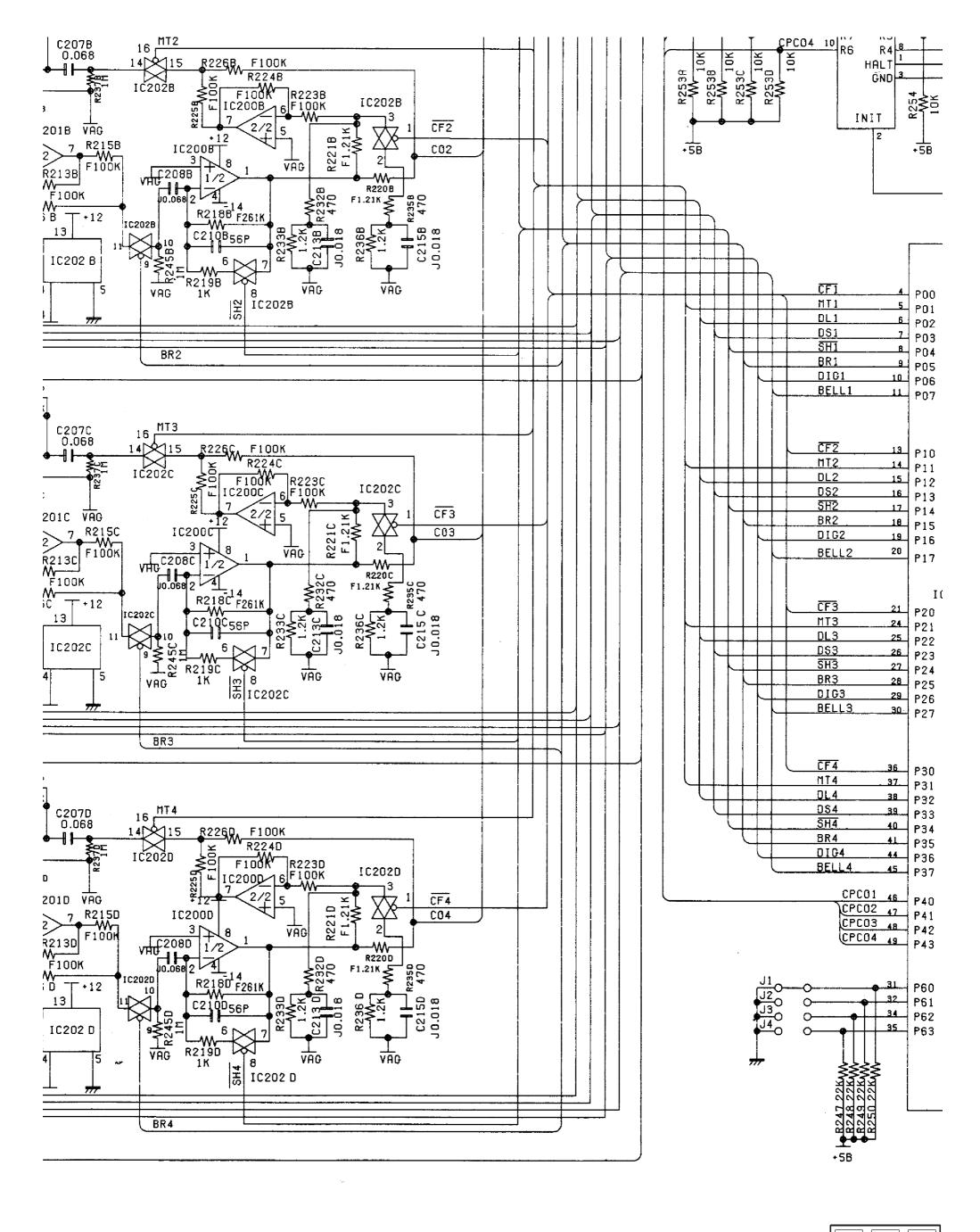


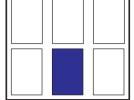


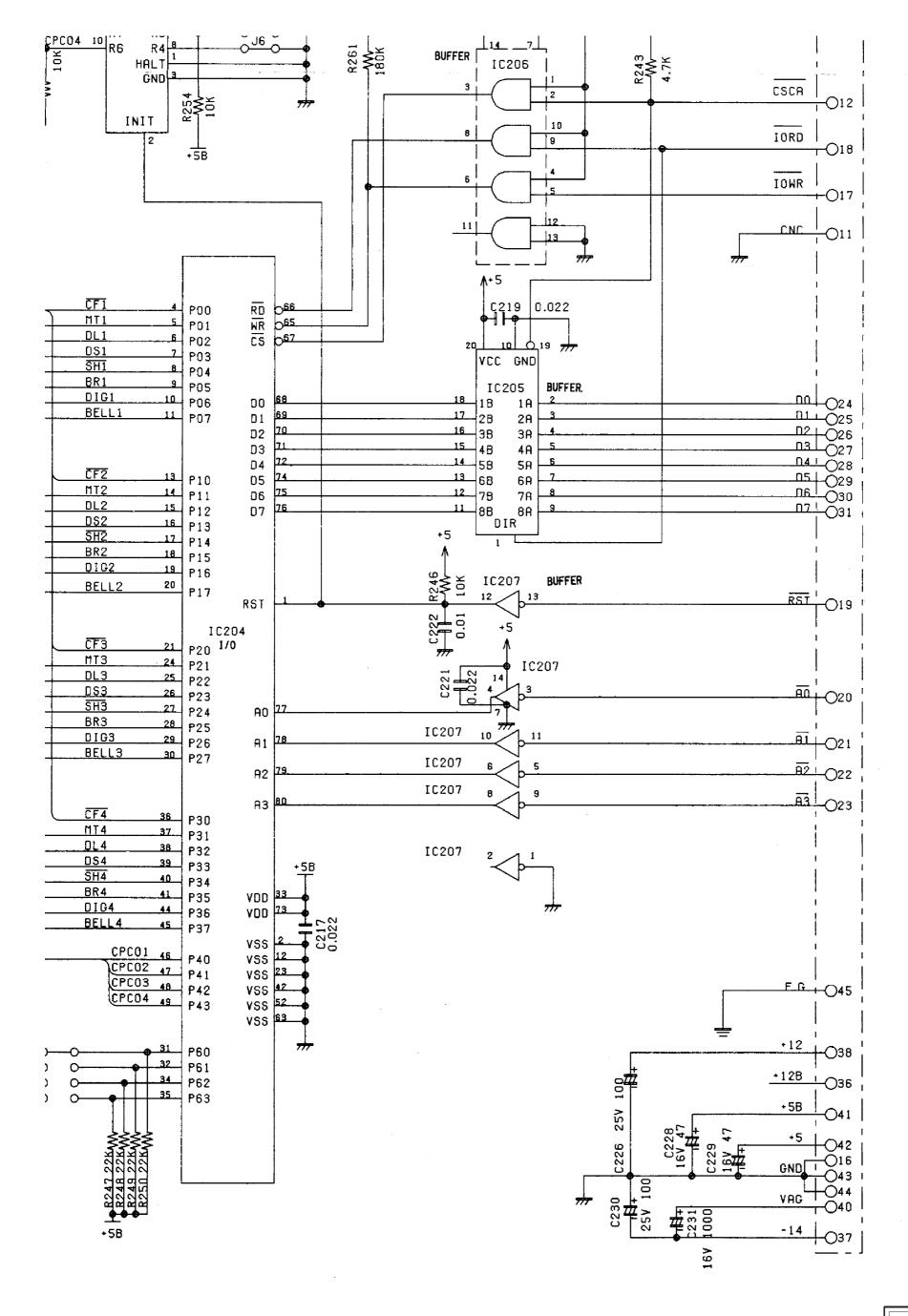


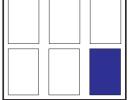




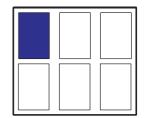






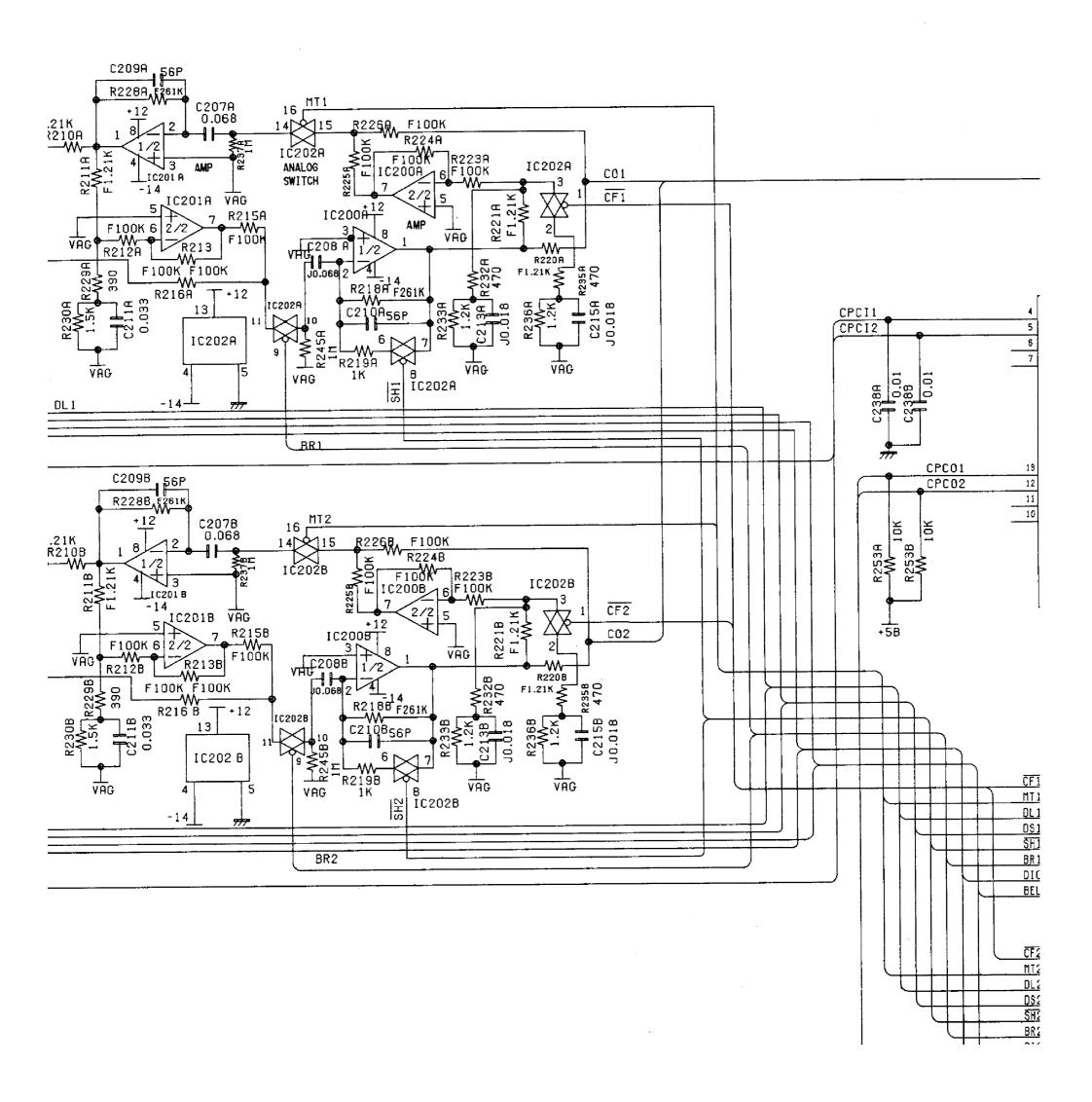


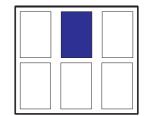
1 2 3 5 4 6 7 Α CNB C200 A R200A 0.1 100V 150 PRLY21A В F1.21K R210A D203A **PROTECTOR** ₹/3 R2118 _I C201 A 1020 F100K 6 2/2 R201A L205A 22K(1/4W) С L203 A В +12B VAG RLY22A D201A 15 R216A CNB ∓12B 202A 120 42169 42169 VAG DS1 DRIVER DL1 **U**204A D BELL1 DIG1 DRIVER CPCI1 C209B 56P Y RLY21B C200B R200B F1.21K R210B D203B Ε 33 _I C201 B R201B **≶** L202 B 22K(1/4W) VAG В 98 F100K [RLY228 +12B VAG +5B R216 l F ₹12B 202B RLY22B 0216B VAG -14 DL2 DS2 BELL2 DIG2 G CPCI2



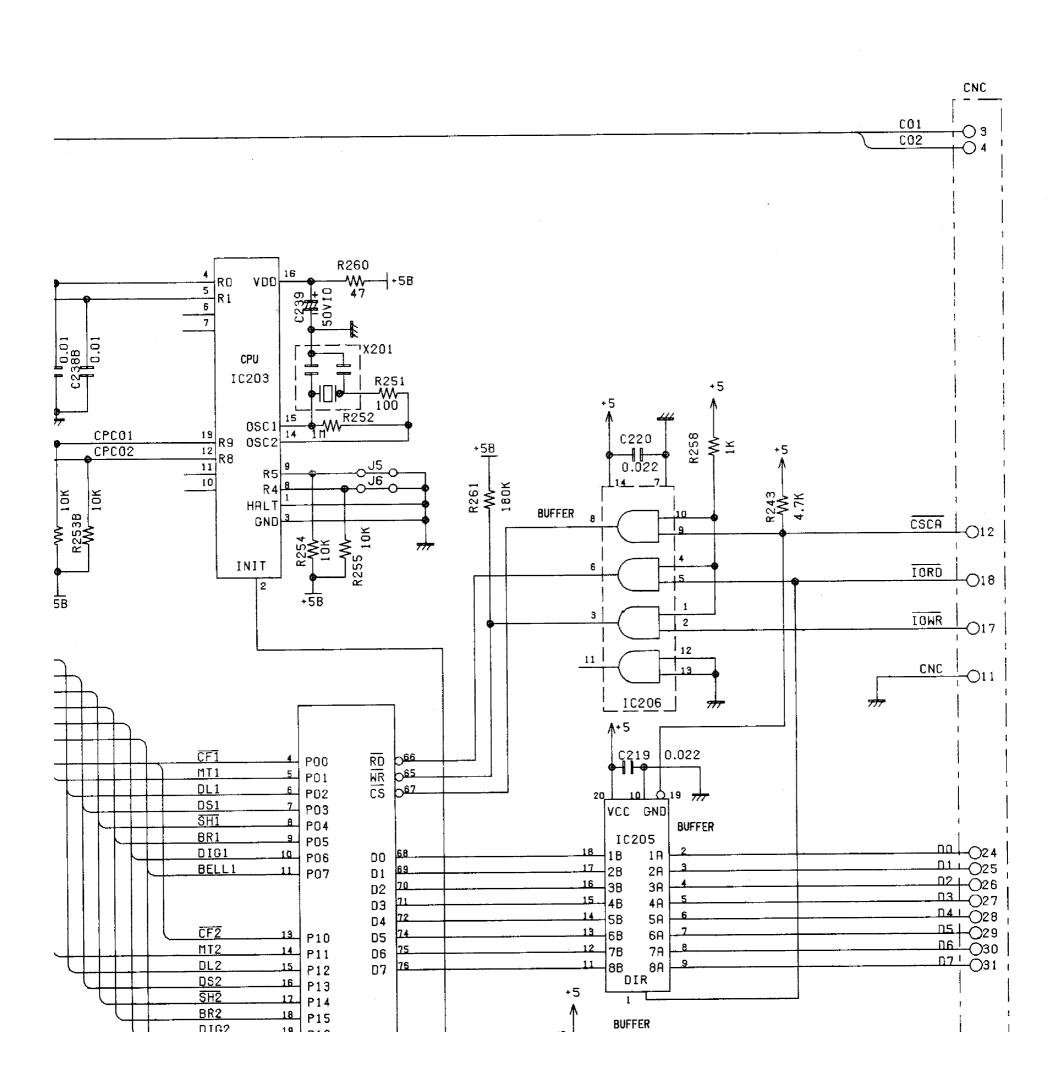
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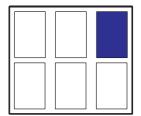
7 8 9 10 11 12

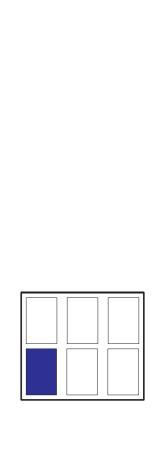


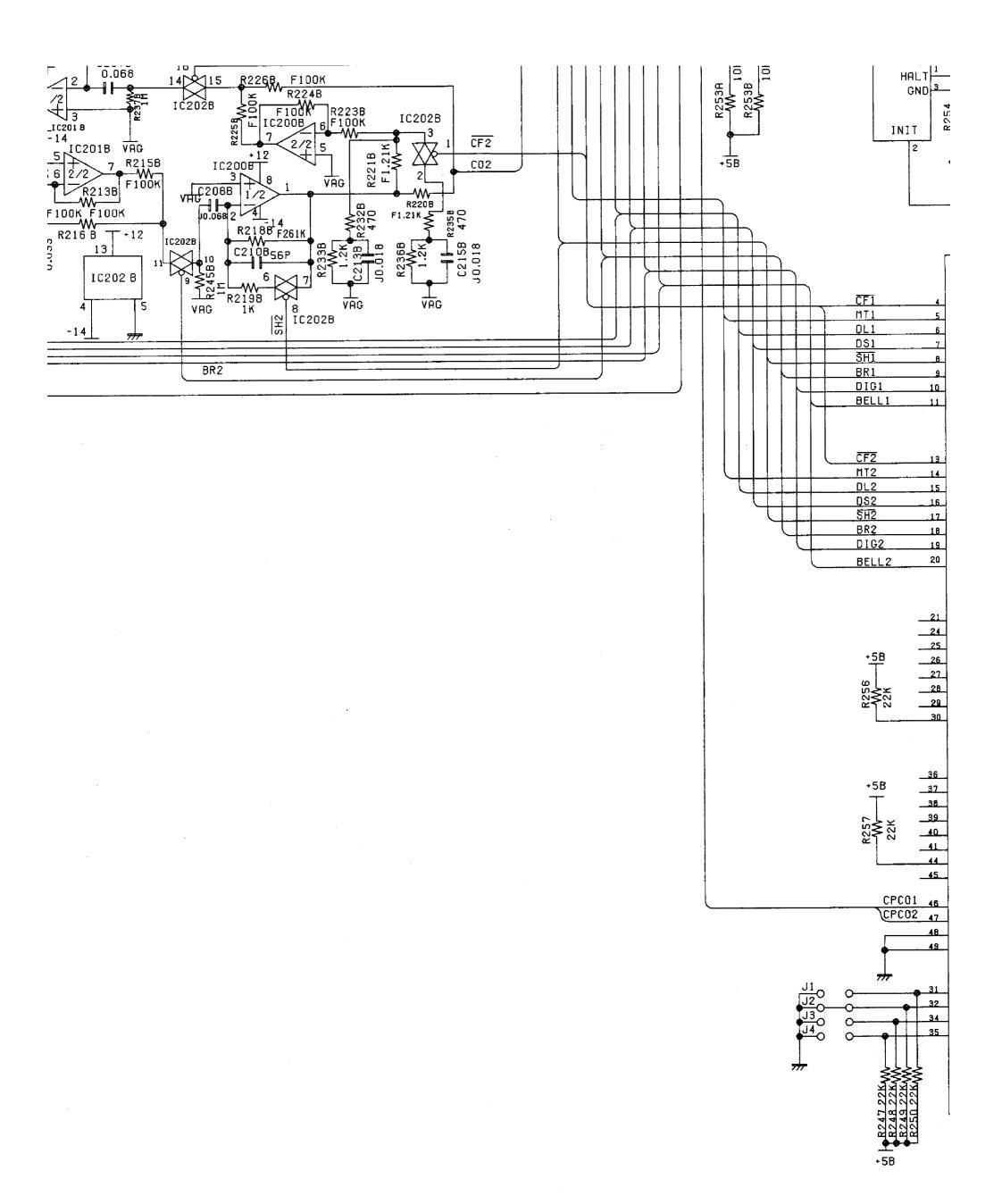


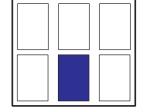
12 | 13 | 14 | 15 | 16 | 17 | 18

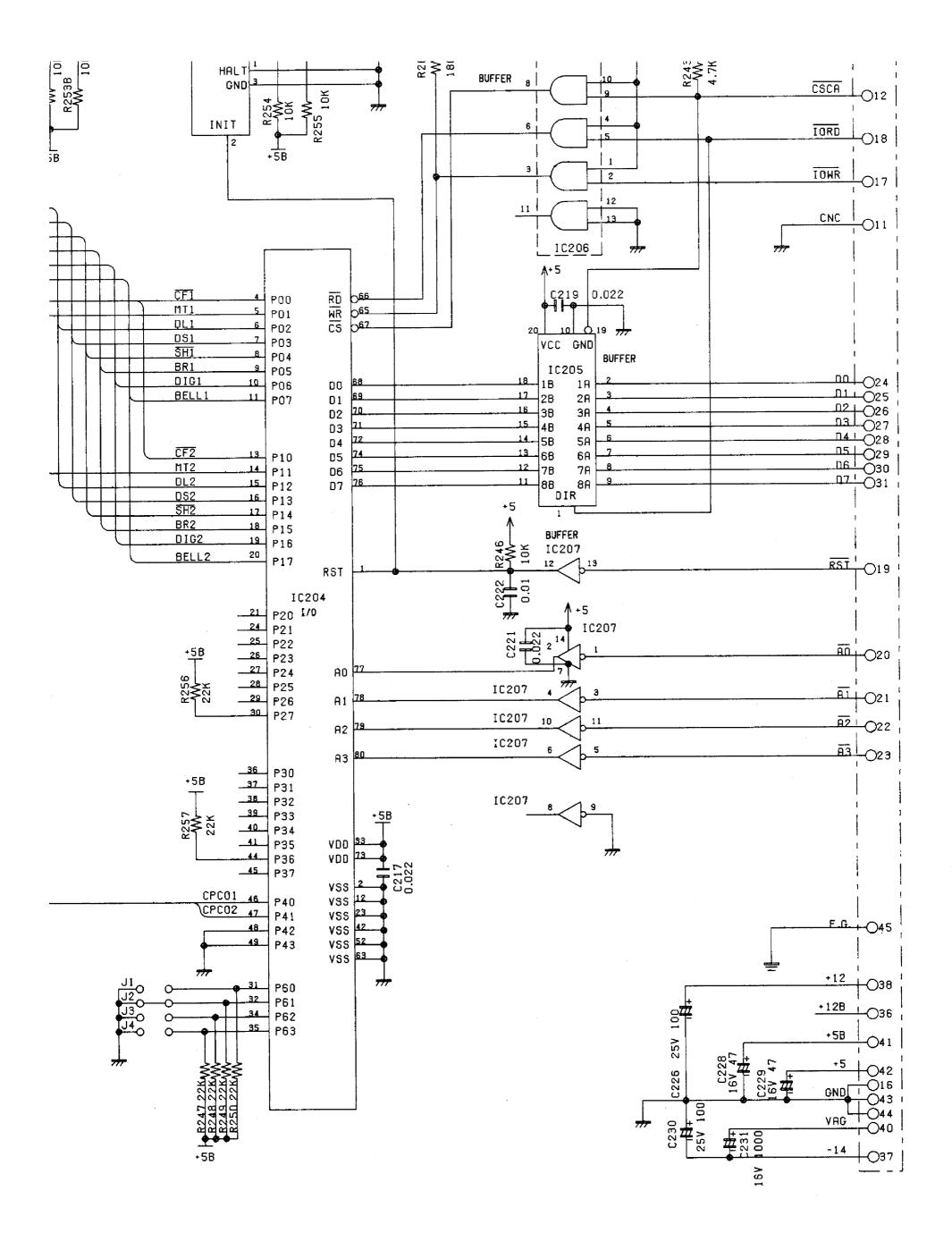


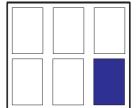




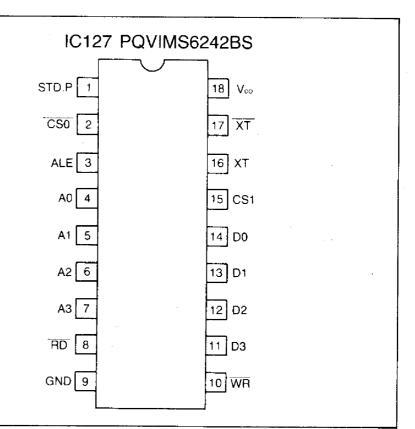




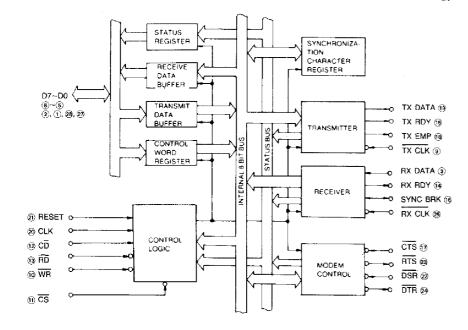


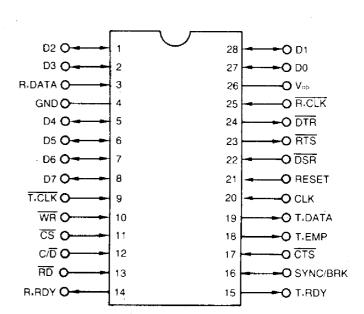


IC120 PQVIPD71054C D7 0-**-0** V₀₀ 24 D6 o-23 → WR --• RD D5 O-22 D4 0-21 D3 0-5 **⊸** A1 20 D2 0-19 **--•** A0 D1 0 - 7 18 **-**○ CLK2 DQ 0---**←**O OUT2 17 CLK0 0---9 16 **—о** GATE2 OUTO O-10 **-**0 CLK1 15 GATE0 O -OGATE1 14 GND O-13 **⊷** OUT1

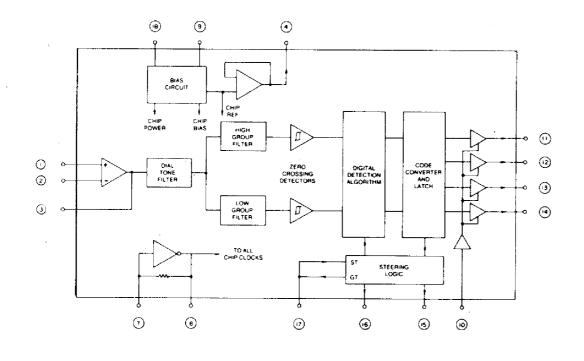


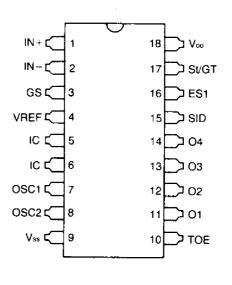
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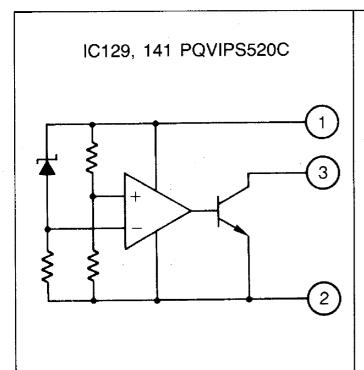




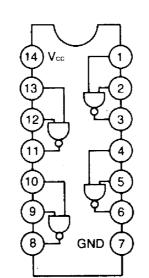
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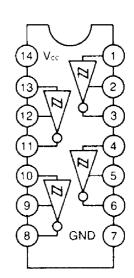




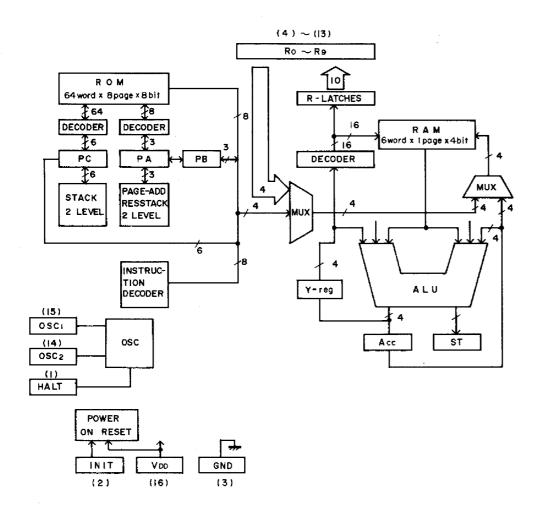
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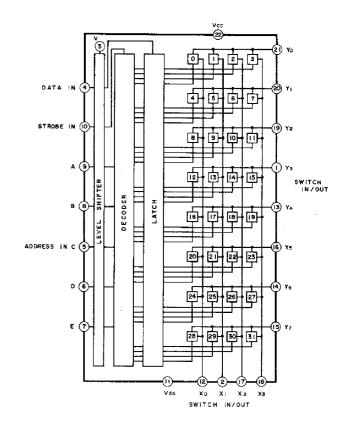
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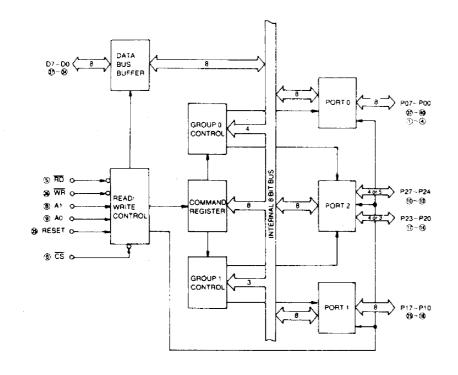
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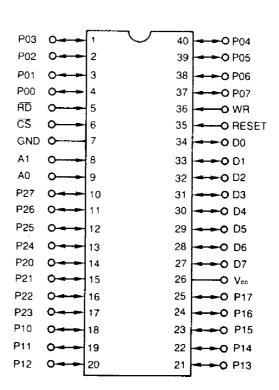


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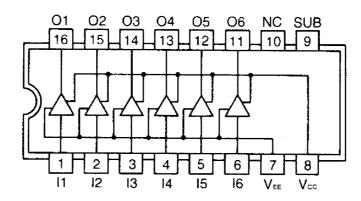


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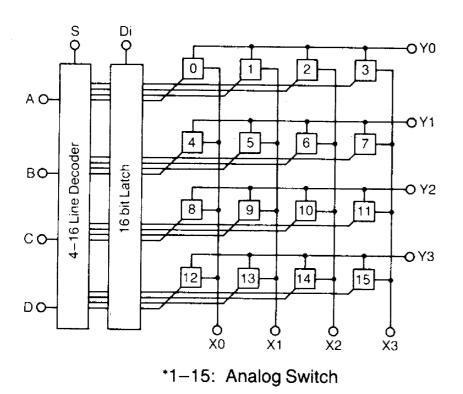


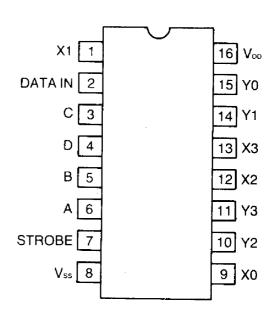


IC406-409 PQVITD62706P



IC447, 448, 450, 451, 453-456 PQVIPD22100C





TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

21 MANA MANA 1 20	32 17 16	28 15 14	15 14	18 1
IC100	IC101	!C102,103,121	IC104,117	IC105,127
11 11 20 1	16 1	20 11 10	13 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	51 50 80 31 81 30
IC106,107,111,112	IC108,113,114,119, 122,142,202A-202D	IC109,110,205,303, 305,401	IC115,120	IC116
**************************************	10 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	132	8 1	8 14 1
IC118,132,133,137-140, 206,207,301,302,304, 402,403,467	IC123,124,125	IC129,141	IC131,200A-200D, 201A-201D,461-466, 468,469	IC134,135136
42 22 WWW WWW 1	2 3 1	9 16 8	12 12 11	64 65 80 1
IC400	IC404,405	1C203,406-409,447, 448,450,451,453-456	IC410-445	IC204,300
Q50,52	E C B	Q100-111, 202A-202D, 203A-203D,204A-204D, 300A-300H,301A-301H, 302A-302H,303A-303H, 304A-304H,305A-305H, 306A-306H,Q307A-307H, 311A,311B,312A,312B, 400,402,404	B C E	Q200A-200D
E C B	Anode Cathode	Anode D50,51,55,56 208A-208D	Anode D52,53,54,57,58, 102-105,107-115, 117-121,203A-203D, 206A-206D	D209A-209D,210A-210D, 211A-211D,212A-212D, 214A-214D,215A-215D, 216A-D216D,302H-302I 305A-305H,308A-308H, 309A-309H,310A-310H 311A-311H,312A-312H 313,314A,314B, 438,43 400-435,VD100
Cathode	D100,204A-204D, 205A-205D,300A-300H, 301A-301H,307A-307H, 436,437	Anode	Cathode	
		D101,201A-201D	LED1-3	
	<u> </u>	<u> </u>		_

(POWER UNIT SECTION)

			·	
8 5	123	9 16 1	5 1	E C B
IC101,102	IC201,206	IC202,203,204	iC205	Q101,204,205
E C B	E C B	E C B	B C E	+
Q102,103,104,201, 206,209,212	Q105,210,211	Q202,207	Q203,208	D101
Anode	Cathode	Cathode	Cathode	
D102,103	D104,202,205,209,212	D105,106,109,111, 204,206,208,211	D108	D110
D201	D203,207,210,213			

ADJUSTMENTS

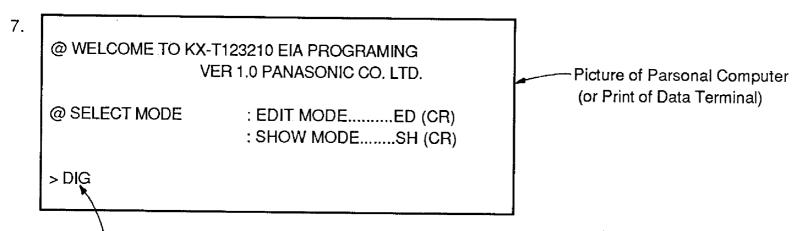
OSCILLATION PERIOD ADJUSTMENT

Perform the following adjustment after replacing IC127.

- 1. Connect the AC cord to the AC outlet (AC 120V, 60Hz).
- 2. Set the Power Switch to ON.
- 3. Remove the rubber part from the System Program Switch and set the System Program Switch to upper position. (See Fig. 31)

(After adjustment, return the System Program Switch to "SET" position and attach the rubber part.)

- 4. Reciprocal light the Day and Night Indicators.
- 5. Connect the KX-T123210 and Parsonal Computer (or Data Terminal) by RS-232C cable.
- 6. Press the Data Key of the Parsonal Computer (or Data Terminal).



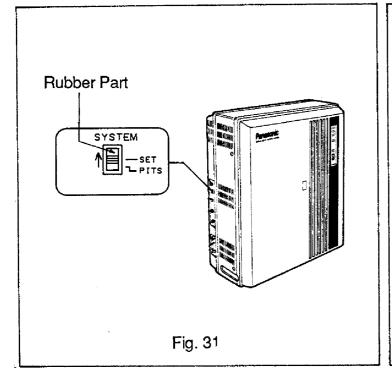
8. Input the DIG and press the Return Key.

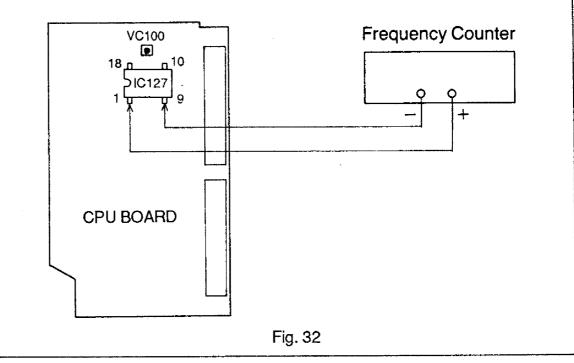
KX-T123210

9. @ SELECT : ALL COMPONENTS....ALL (CR)
: SYSTEM......SYS (CR)
: X-POINT.....XPT (CR)
: CO TRUNK.....COT (CR)
: LINE CIRCUIT.....LCT (CR)
: PRODUCTION.....PRO (CR)
: MODE END.....PRO (CR)

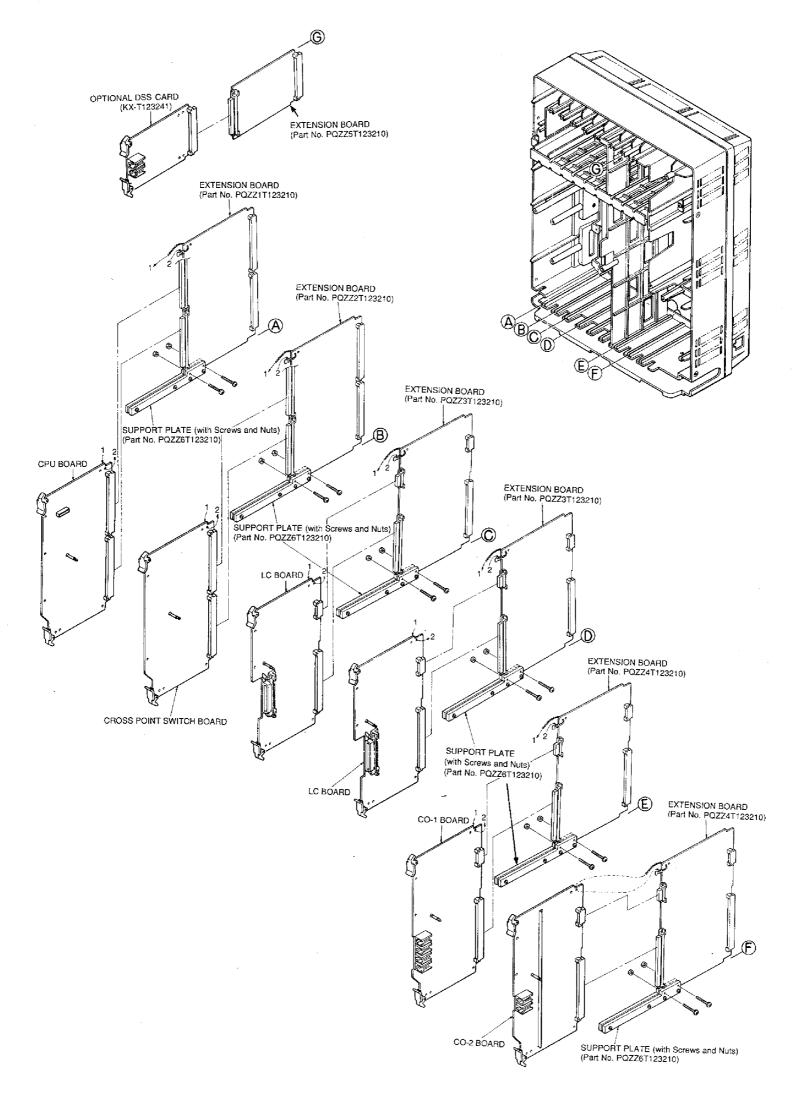
- 10. Input the PRO and press the Return Key.
- 11. Connect the frequency counter. (See Fig. 32)
- 12. Set the frequency counter to "PERIOD" position.
- 13. Adjust VC100 for a reading of (χ) msec on the frequency counter.

Room temperature for adjusting (°C)	Period value (msec)	Room temperature for adjusting (°C)	Period value (msec)
14~14.9	15.624943 (±0.00001)	20~20.9	15.624880 (±0.00001)
15~15.9	15.624933 (±0.00001)	21~21.9	15.624876 (±0.00001)
16~16.9	15.624922 (±0.00001)	22~27.9	15.624870 (±0.00001)
17~17.9	15.624910 (±0.00001)	28~28.9	15.624876 (±0.00001)
18~18.9	15.624899 (±0.00001)	29~29.9	15.624880 (±0.00001)
19~19.9	15.624888 (±0.00001)		





EXTENSION BOARD CONNECTING METHOD

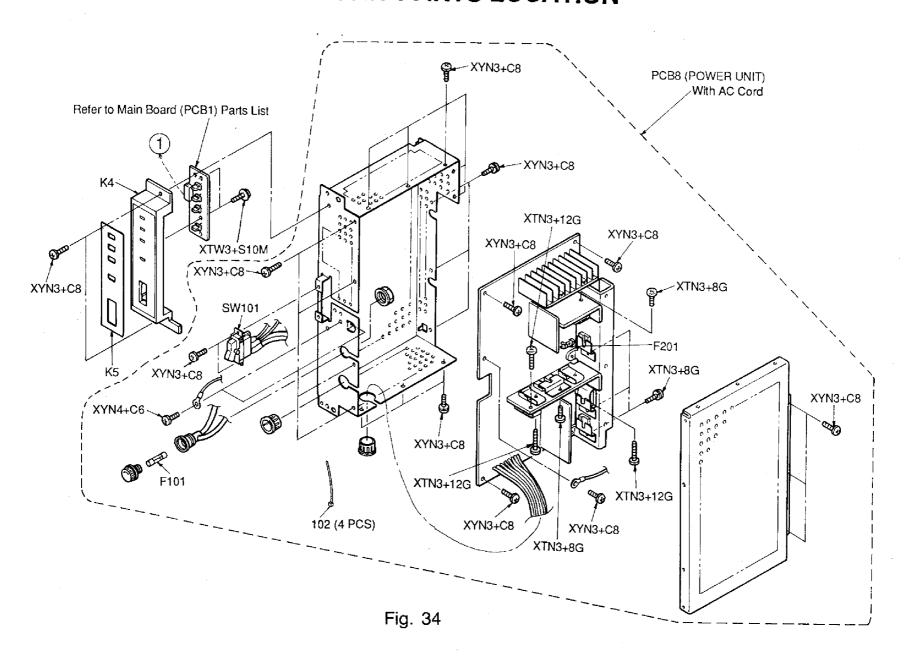


OPTIONAL EXPANSION CARD	AND EXTENSION BOARD COMPA	ISON TABLE
OPTIONAL EXPANSION CARD	EXTENSION BOARD PART NO.	
KX-T123270 (8 Extensions)	PQZZ3T123210	PQZZ6T123210
KX-T123271 (4 Extensions)	PQZZ3T123210	PQZZ6T123210
KX-T123280 (4 CO's)	PQZZ4T123210	PQZZ6T123210
KX-T123281 (2 CO's)	PQZZ4T123210	PQZZ6T123210

CABINET AND ELECTRICAL PARTS LOCATION

Fig. 33

POWER UNIT PARTS LOCATION



ACCESSORIES AND PACKING MATERIALS

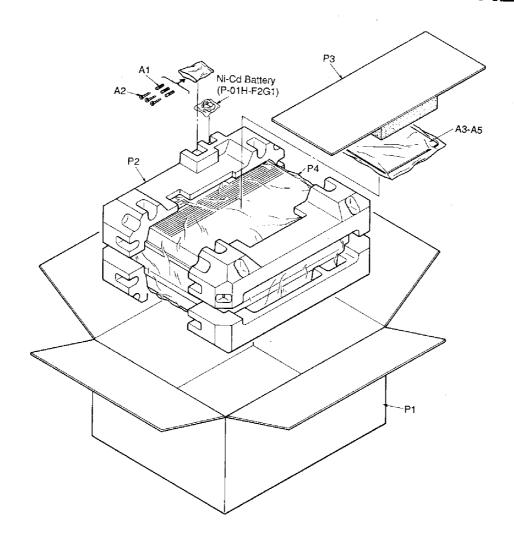


Fig. 35

REPLACEMENT PARTS LIST											
Notes:					N	/lode	KX-T123210	- 1			
1. Printed circuit	board assembly	and pov	ver ur	nit with	h mark (l	NLA)) is no longer	- 1			
	production discor										
2. Important safe								1			
Components is	dentified by the	∱mark s	specia	ıl cha	racteristi	cs in	nportant				
for safety.	-										
When replacing	ng any of these o	ompone	nts, u	ıse or	nly manu	ıfactı	urer's specified				
parts.	· · · · · · · · · · · · · · · · · · ·										
The S mark indicates service standard parts and may differ from production											
parts.											
4. RESISTORS 8	& CAPACITORS							-			
Unless otherw	ise specified.										
	e in ohms($oldsymbol{\Omega}$) $oldsymbol{k}$										
	are in MICRO FA	ARADS()	μF)F	P= μF							
*Type &Watta	ge of Resistor										
Туре											
ERC:Solid	ERX:Metal F			RD:Ca							
ERD:Carbon	ERG:Metal C			₹Q:Fu							
PQ4R:Chip	ERO:Metal F	ilm	ERF	:Wire	Wound						
Wattage								•			
	/ 14,25,S2:1/4	W 12	,50,S	1:1/2\	W 1:1W	<u>/ </u>	2:2W 5:5W				
1 "	e of Capacitor										
Type											
ECFD:Semi-C	onductor			•	•		Ceramic	l			
ECQS:Styrol				-	-		CQB : Polyester				
PQCBX,ECUV	:Chip			-	S : Elect	rolyt	IC				
ECMS:Mica		ECQP	Poly	proply	/lene]			
Voltage			_					1			
ECQ Type	ECQG	ECSZ	l ype			Oth	ners	ŀ			
	ECQV Type				- 2 21 /		411 0-11	1			
1H: 50V	05: 50V	OF:3.1			:6.3V		1V :35V				
2A:100V	1:100V	1A:10\			:10V		50,1H:50V				
2E:250V	2:200V	1V:35V 1C :16V 1J :63V									
2H:500V		OJ:6.3\	/	1E,2	5:25V		2A :100V	j			

Ref. No.	Part No.	Part Name & Description	Pcs
	CABIN	IET & ELECTRICAL PARTS	
K1	PQYFT123210M	Front Cabinet Assembly	1
K2	PQYMT123210M	Cabinet Body Assembly	1
K2-1	PQGT295Z	Name Plate	1
< 3	PQYUT123210M	Rear Cover Assembly	1
< 4	PQGG52Z	LED Grille	1
K5	PQGK54Z	Indication Plate	1
K6	PQUV66Z	Cover	1
E1	P-01H-F2G1	Ni-Cd Battery	1
E2	PQLT1U9M1A	Bell Transformer	1
E3	RME143Z	Cord Band	2
E4	RME144Z	Cord Band	2
	ACCESSORIE	S AND PACKING MATERIALS	\ !
A 1	PQHE10Z	Curl Plug	3
A2	PQHE5008Z	Screw	3
АЗ	PQQX5442Z	Installation Manual	1
A4	PQQX5443Z	User Guide	1
A5	PQQX9183Z	Instruction Book (For AdditionI Feature)	1
P1	PQPK516Z	Packing Case	1
P2	PQPN9039Z	Pad Complete	1
P3	PQPE101Z	Pad	1
P4	PQPP118Z	Protection Cover (for Unit)	1
	.		

LIST	T. 000.10	Ref. No.	Part No.	Part Name & Description		Pcs
Model KX			MAIN	BOARD PARTS		
er unit with mark (NLA) is n of the complete set.	o longer		IVAIN	I BOARD PARTS		
of the complete set.		PCB1	PQWP1T123210	Main P.C. Board Ass'y (NLA)		1
pecial characteristics import	tant					
·				(DIODES)		
nts, use <mark>only man</mark> ufacturer's	s specified	D10,13	LN220RPH	LED		2
		D11	LN420YPH	LED		1
parts and may differ from p	roduction	D12	LN320GPH	LED		1 1
				(TRANSFORMERS & COILS)	ļ	
		T1,2,3	PQLT2D6B	Transformer		3
<i>f</i> i=l000kΩ		L1,2,4,	PQLQZM2R2M	Choke Coil		9
F)P= μF		L5,7-9,				
,		L11,13			_	
		L3,6	PQLQZM4R7K	Choke Coil	s	2
PQRD:Carbon				(CMITCHES)	İ	
PQRQ:Fuse ERF:Wire Wound		sw	EVQQJH12T	(SWITCHES) Switch, Reset	Į	1
ERF. WITE WOULD		sw	PQSS3A14Z	Switch, Mode	1	1
50,S1:1/2W 1:1W 2:2V	V 5.5W			,		. [
	<u> </u>			(RESISTORS)		ļ.
		R1-14	ERD16TJ103	10k		14
CKD,PQCBC,PQVP : Cera			ERD16TJ821	820		3
CQV,ECQE,ECQU,ECQB	: Polyester	R19-22	ERD16TJ821	820		4
CSZ,ECOS : Electrolytic Polyproplylene	[]			(JACKS & CONNECTORS)		1
Polyproplylene		JA1,2	PQJJ1E1Y	Jack, Paging		2
ype Others		JA3	RJJ19Y	Jack, Earphone		1
,,,,,		CN1-3,	PQJS45S30Z	Connector, 45P		10
	:35V	6A-6D,				
	1H:50V	8A-8C				_
1C :16V 1J	:63V	CN5A-	PQJS8S32Z	Connector, 8P	- 1	7
1E,25:25V 2A	:100V	5D,7A-				
		CN9,	PQJS64S30Z	Connector, 64P	- 1	4
t Name & Description	Pcs	CN10A,	1			
trans a soonpro.	' '	10B,11				
TRICAL PARTS		CN12-	PQJS50S33Z	Connector, 50P		4
	•	CN5	<u> </u>			
abinet Assembly	1	CN4	PQJS90S30Z	Connector, 90P		
Body Assembly	1 1	CN16	PQJS5R31Z	Connector, 5P Connector, 5P		
late over Assembly		CN17 CN18	PQJS5R32Z PQJS6R31Z	Connector, 6P		
lle		CN19,	PQJS10R31Z	Connector, 10P		2
on Plate	li	CN20	, 400.01.01.			1
	1	CN21	PQJS25P31Z	Socket, EIA		1
		CN22	PQJS2L44Z	Connector, 2P		1
		J26	PQJP5D13Z	Connector, 5P		1
attery	1 1		L COLL	LDOADD DADTS		
nsformer	1 2		ÇPU	BOARD PARTS		
and and	2	PCB2	PQWP2T123210	CPU P.C. Board Ass'y (NLA)		1
ши	. -		T GITT ET TESETS	(i = y		
CKING MATERIALS	<u></u>	11		1		1
]]		(ICs)	ļ	
g	3	IC100	PQVIMS80C88	IC (FOLKIN)	ļ	1
	3	IC101/	PQWIT123210M	IC (ROM Kit)		1
tion Manual	1	IC104 IC102	PQVIPD83257C	ic .	s	1
₂ide ion Book		IC102	PQVIPD83257C PQVIHM62256L	l c	S	
ditionl Feature)	'	IC105	PQVIMS8C84A2	lic	S	1 1
Case	1	IC106	PQVIM7H245P	IC		1
mplete	1	IC107	PQVIM7H245P	IC		1 1
	1	IC108	PQVIM7H174P	IC		1
on Cover (for Unit)	1 1	IC109	PQVIHD7L640P	IC		
	1	IC110	PQVIHD7L240P	IC IC		¦
		IC111	PQVIM7H373P PQVIM7H373P	IC IC		¦
		IC112	PQVIM7H373P	lic		
	1	IC114	PQVIHD7L138P	IC		1
	1	IC115	PQVIHD7L154P	ic		1 1
	1	IC116	PQVI63HB110	IC		1 1
	1	IC117	PQVIMS8C59A2	IC .	S	1 1
		IC118	PQVIM7H107P	IC	c	1
		IC119	POVIDOTAGE	IC IC	S S	1 1
		IC120 IC121	PQVIPD71054C PQVIPD71051C	ic ic	S	
			1 (47)1 (27) 10310	1.~		<u> </u>

Color	Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Value	Pcs
Color Colo					1	 	(RESISTORS)	
Col. 26		PQVIMT8870BC	IC .	3	R68	ERD16TJ220	• •	1
Include					i 1	ERD16TJ103	10k	4
COLUMN C	1	Nextical			P T			1
Mort Label			10				4	1
Color Colo		i .	IC	1 1				3
Mail Used			10					1
COMPANSESD C 1 Report		E .	IC	1				10
C1329 COVID-175-189P C		1	l _{io}					3
C134 POWHED75180P C1		1			1 1 .	3		2
IC336 POVIMITIOP IC				1]				2
	3	•		1 :				1 1
C1036 POVITC/HOOP C1								1
C138 POLYTICTHORP C1		1 9 X	l .				10K	1
C139 POWITOT.SOAP C						l contract of the contract of	401	
C1040 POWTO-Photop C							4	2
Color				¦				1
IC141 POVIBUSI40	I .							1
IC142			=	1 1	1 1			1 1
Color				1 1		EUD 1010102	118	4
C100- DTC124EA (TRANSISTORS) Francistor (S) Francistor (S) Transistor (S) Francistor (Francistor (S) Francistor (S) Francistor (Francistor (S) Francistor (Francistor (S) Francistor (Francistor (S) Francistor (Francistor (S) Francistor (Francistor (S) Francistor (Fr				•		EDD16T H09	104	
DTG124EA		•						1 1
DTC124EA			(TRANSISTORS)			1	•	
Display Disp	Q100-	DTC124EA	· ,	4				¦
Display Disp			1					'
Color Colo		Not Used		1				1 1
25A837	Q105	1	Transistor (Si)	1		2	1	¦
DTC124EA	Q106		• '					
OTAT A A A A A A A A A	Q107	DTC124EA	, ,	1 1				1
DTA124EA Transistor (Si) 1 R119 R120 ERD16TJ123 22k Control	Q108	DTA124EA		1				4
DTC124EA	Q109	DTA124EA	Transistor (Si)	1 1				"
DTA143XA	Q110	DTC124EA		1 1		ERD16TJ223	22k	3
D100	Q111	DTA143XA	Transistor (Si)	1				ľ
Dit Dit		÷			R123-	ERD16TJ103	10k	18
Diode Sist Diode Diode Sist Diode	D100	ΜΔ4001	1.		R141-	ERD16TJ102	1k	6
Dide Dide				1		EDD (AT LAC		
D105			, ,			ERD161J103	10k	6
D105		100101	Diode (Si)	3		EDD46T HAS		
D106		Not I Ised				EKD1613102	1K	4
Didd Didd		· ·				EDD4CT I400	401	_
D115			Diode (Si)			ENDIGIOIOS	IUK	3
D116			January (Si)			EDD16T 1102	106	
D17- D17- D121 D10de (Si) D10de (Si) D10de (Si) D121 D10de (Si) D	1	Not Used				ENDIDIDIOS	IOK	4
D121			Diode (Si)	5		ERD16T.I103	104	
VD100	D121			"		8		1
VC100 PQCVTZB30B (TRIMMER) Trimmer 1 1 R167 R215148 18k	VD100	PQVD1SV124	Diode (Si)	1 1				4
VC100								1
VC100 PQCVTZB30B (TRIMMER) Trimmer 1	į		Ī					1
VC100			(TRIMMER)					
CA101 PQXF4WB04 Capacitor Array 1 R175 R176 ERD16TJ103 10k 2 R175 R176 ERD16TJ103 10k 2 R175 R176 ERD16TJ104 150k 2 R176 ERD16TJ223 22k 2 R179 ERD16TJ223 22k 2 R179 ERD16TJ223 22k 2 R179 ERD16TJ223 22k 2 R179 ERD16TJ223 22k 2 R179 ERD16TJ223 22k 2 R179 ERD16TJ223 22k 2 R179 ERD16TJ233 23k 2 R179 ERD16TJ223 22k 2 R179 ERD16TJ223 2 R179 ERD16TJ223 2 R179 ERD16TJ223 2 R179 ERD16TJ233 2 R179 ERD16TJ233 2 R179 ERD16TJ233 2 R179 ERD16TJ233 2 R179 ERD16TJ333 3 R181 ERD16TJ333 R181 ERD16TJ333 3 R181 ERD16TJ333 3 R181 ERD16TJ333 3 R181 ERD16TJ333 3 R181 ERD16TJ333 3 R181 R181 ERD16TJ333 3 R181 ERD16TJ333 3 R181 ERD16TJ333 3 R181 R181 ERD16TJ333 3 R181 R181 R181 R181	VC100	PQCVTZB30B	1.	1 1				1
CA101 PQXF4WB04 Capacitor Array 1 R172- R175 ERD16TJ103 10k			1					1
CA101			1					4
CA101	į							'
Z108			Capacitor Array	1 1		ERD16TJ154	150k	1
R178	Z108	EXBP84103K	Resistor Array S	1 1				1
X100		,	1					
X100	1							1
X101	,,,,,,					ERD16TJ472		1 1
X102			Crystal Oscillator Assembly	1 1			100k	1
X103							i i	1
TH100 PQRRTS104U PQRRTS203U (THERMISTERS) TH101 PQRRTS203U (THERMISTERS) Thermister Th100 PQRRTS203U (THERMISTERS) Thermister 1 R185 ERD16TJ333 33k 330k 100k 110								1
TH100 PQRRTS104U PQRRTS203U (THERMISTERS) TH101 PQRRTS203U Thermister L100- PQLQZM1R5M Choke Coil L104 PQLQZM2R2M Choke Coil THERMISTERS) TH886 R186 ERD16TJ334 100k 1100k	X103	PUVCL3276N4Z	Crystal Oscillator	1				1
TH100 PQRRTS104U Thermister 1 1 R187 ERD16TJ104 33k 33k 11 1								1
TH100 PQRRTS104U PQRRTS203U Thermister 1 1 R188 R189 ERD16TJ333 330k 11 1 PQRRTS203U COILS) L100- PQLQZM1R5M Choke Coil 4 PQLQZM2R2M Choke Coil 1			J					1
TH101 PQRRTS203U Thermister 1 R189 R190- R199 ERD16TJ334 10k 11 L100- PQLQZM1R5M Choke Coil 4 Choke Coil 1	T114.5.5	DODDTO					1	1
COILS R199 ERD16TJ103 10k				1 1				1
COILS Choke Coil 4 R199 Choke Coil 4 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil	1H101	PQRRTS203U	I hermister	1 1			1	1
COILS Choke Coil 4 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil 1 Choke Coil Ch						ERD16TJ103	10k	10
L100- PQLQZM1R5M			(COILS)		H199]	
L103	1100-	POLOZM1R5M		,				
L104 PQLQZM2R2M Choke Coil 1		- GEGENT I IUNI	Chora doil	"				
		PQLQZM2R2M	Choke Coil	,				
		PQLQZM2R2M	Choke Coil					

KX-T123210

Ref. No.	Part No.	Value, Part Name & Description		Pcs	Ref. No.	Part No.	Value, Part Name & Description	Ī	Pcs
		(CAPACITORS)				CROSS POINT	SWITCH BOARD PARTS		
C100	ECEA1HU4R7	4.7		1	5050	DOM DOT LOCAL		_	
C101	ECEA1HU100	10	s	1	PCB3	PQWP3T123210	Cross Point Switch P.C. Board Ass'y		1
C102	Not Used		ړ		1		(NLA)	1	
C103	ECEA1HU100	10	s	1			(10%)		
C104	ECEA1HU100	10		1	IC400	PQVIPD71055C	(ICs)	s	1
C105	ECEA1CSS102	1000	ı	¦	IC400	PQVIHD7L640P	lic	ી	4 .
C106	ECEA1HN3R3S	3.3	s	3	IC401	PQVIHD7L840P	lic	ŀ	4
C107- C109	ECEA1HU100 Not Used	10	ी	۱ ۲	IC402	PQVIHD7LS04P	ic		1
C1109	ECEA1EU470	47	٥	, [IC403	AN78L07	ic		1
C111	ECEA1EU470	47	S S	'	IC404	AN79L07	ic		1
C112-	Not Used	47	ી	' [IC405	PQVITD62706P	lic		4
C112-	Not Osed				IC400-	PQVIID02700F			7
C120	ECQV1H104JZ	0.1		- 1 l	IC410-	PQVIM402101P	IC		36
C121	ECQV1H104JZ	0.1		; 1	1C445	CONTINUE	1		
C122	Not Used	0.1	i	'	IC446	Not Used			
C123	Not Used				IC447	PQVIPD22100C	IC .	s	1
C124	ECCD1H150JC	150P		- ₁ l	IC448	PQVIPD22100C	ic	s	1
C125	ECCD1H150JC	150P		i 1	IC449	Not Used	1,0	Ĭ	·
C126	Not Used	1301		' l	IC450	PQVIPD22100C	l ic	s	1
C127	Not Used				IC451	PQVIPD22100C	lic	s	1
C127	Not Used		- 1	1	IC451	Not Used	1	٦	•
C128	ECQM1H472JV	0.0047	ļ	- 1 I	IC452	PQVIPD22100C	IC	s	4
C130	ECFD1C104MD	0.0047		1 1	IC456			آ	•
C131	ECQV1H104JZ	0.1]		IC457-	Not Used	1		
C132	ECFD1C104MD	0.1		i	IC460	1101 0000			
C132	ECQV1H104JZ	0.1	1		IC461-	PQVINJM4558D	IC		6
C134	ECFD1C104MD	0.1		1	IC466				
C135	ECQV1H104JZ	0.1	- 1	1	IC467	PQVIPD4066BC	IC		1
C136	Not Used	0.1	- 1	'	IC468	PQVINJM4558D	IC	1	1
C137	Not Used				IC469	PQVINJM4558D	IC	Į	1
C138	ECFD1C104MD	0.1		1	110 100	4 4 11 10 10 10 10 10 10 10 10 10 10 10 10			
C139	ECKD1H103MD	0.01		1	1				
C140	Not Used	0.01		· •	•		(TRANSISTORS)		
C141	ECKD1H103MD	0.01		1	Q400	2SC2021	Transistor (Si)	1	1
C142	ECKD1H102KB	0.001			Q401	2SC2878	Transistor (Si)		1
C143	ECKD1H102KB	0.001		1 1	Q402	DTC124EA	Transistor (Si)		1
C144-	Not Used	0.001		' I	Q403	Not Used	Transistor (Si)	İ	
C149	110.0004				Q404	DTA124EA	Transistor (Si)		1
C150-	ECKD1H223MD	0.022		4	1				
C153				· 1			(DIODES)		
C154	Not Used	·			D400-	1SS131	Diode (Si)		36
C155	ECKD1H223MD	0.022		1	D435				
C156	ECKD1H223MD	0.022		1 1	D436	MA4047	Diode (Si)		1
C157	Not Used			1	D437	MA4047	Diode (Si)		1
C158-	ECKD1H223MD	0.022		4	D438	188131	Diode (Si)		1
C161					D439	1\$\$131	Diode (Si)		1
C162-	Not Used					,	` ´		
C165			i						
C166-	ECKD1H223MD	0.022		10			(COMPONENT COMBINATIONS)		
C175		1			Z400-	EXBP86103K	Resistor Array	S	4
C176	Not Used				Z403		1		
C177	ECEA1EU470	47	s	1					
C178	Not Used		_				(TRANSFORMER)		
C179	ECKD1H223MD	0.022		1 1	T400	ETA14Y85AY	Transformer		. 1
C180	Not Used	1		ļ l					
C181	ECKD1H223MD	0.022		1					
C182	Not Used						(RESISTORS)		
C183	ECKD1H223MD	0.022		1	R400	ERD16TJ103	10k		1
C184	ECKD1H223MD	0.022		1	R401	ERD16TJ103	10k		1
C185-	Not Used	İ			R402	Not Used			
C189		1			R403	ERO16CKF1180	118		1
C190	ECKD1H223MD	0.022		1 1	R404-	ERD16TJ103	10k		21
C191	ECKD1H223MD	0.022		1 1	R424		1		1
C192-	Not Used	1]	R425-	ERD16TJ472	4.7k		3
C196				1	R427]
C197	ECCD1H150JC	15P		1	R428	ERD16TJ223	22k		1
C198	ECCD1H150JC	15P		1	R429	Not Used			
C199	ECEA1EU470	47		1 1	R430-	ERO16CKF1180	118		31
3,33		1"			R460				l
		(OTHERS)			R461-	ERO16CKF1021	1.02k		32
1	PQDF996Z	Shaft		2	R492]			
2	PQUB11Z	Palstic Parts, Latch		2	R493-	ERO16CKF1430	143		12
3	PQME52Z	Plastic Parts, Stopper		4	R504				-
CNA	PQJP14D49Z	Connector, 14P		1	R505-	ERO16CKF1001	1k		12
I.	PQJP45S30Z	Connector, 45P		2	R516				
CN1,2	TWC40000L	Connector, 45r		۴	11010	<u> </u>			

Ref. No.	Part No.	Value	Pcs	Ref. No	o. Part No.	Value, Part Name & Description	Pcs
R517	ERO16CKF1151	1.15k	1	C413	ECKD1H223MD	0.022	1
R518	ERO16CKF1151	1.15k	1	C414	Not Used		
R519	Not Used			C415	Not Used		
R520 R521	Not Used	0.46		C416	Not Used		
R521	ERO16CKF3401 ERO16CKF3401	3.4k	1	C417	ECKD1H102KB	0.001	
R523-	ERO16CKF3921	3.4k 3.92k	1 1	C418	Not Used	•	ľ
R527	LIJO 100KI 0321	5.52K	5	C419	Not Used	0.004	
R528	ERD16TJ104	100k		C420 C421	ECQM1H102JV ECQM1H102JV	0.001 0.001	
R529	ERD16TJ223	22k		C422-	ECQV1H273JZ	0.027	1 5
R530	ERD16TJ333	33k	1	C426	204717127602	0.027	"
R531	ERD16TJ333	33k	1	C427	ECKD1H102KB	0.001	1 1
R532	ERD16TJ102	1k	1	C428	ECKD1H332KB	0.0033	1 1
R533	ERD16TJ102	1k	1	C429	ECKD1H102KB	0.001	1.
R534	ERD16TJ222	2.2k	1	C430	ECKD1H332KB	0.0033	1
R535 R536	ERD16TJ223	22k	1 1	C431	ECFD1C104MD	0.1	1
R537	ERD16TJ333 ERD16TJ222	33k	1 1	C432	ECFD1C104MD	0.1	1
R538	ERD16TJ223	2.2k 22k		C433	ECKD1H332KB	0.0033	1
R539	ERD16TJ333	33k		C434	ECQV1H333JZ	0.033	1
R540	ERD16TJ332	3.3k	;	C435 C436	Not Used		
R541	ERD16TJ472	4.7k		C436	Not Used Not Used		
R542	ERD16TJ222	2.2k		C437	ECQM1H222JV	0.0022	1 .
R543	ERD16TJ472	4.7k		C441	LOGIVITIZZZUV	0.0022	4
R544	ERD16TJ334	330k	1	C442	ECFD1C104MD	0.1	,
R545	ERD16TJ333	33k	1 1	C443	ECQV1H683JZ	0.068	
R546	ERD16TJ103	10k	1	C444	ECFD1C104MD	0.1	
R547	ERD16TJ153	15k	1	C445	ECQV1H473JZ	0.047	l i
R548	ERD16TJ103	10k	1	C446	Not Used		
R549	ERD16TJ681	680	1	C447	ECKD1H223MD	0.022	1 1
R550	ERD16TJ681	680	1	C448	ECKD1H223MD	0.022	1
R551 R552	ERD16TJ332	3.3k	1	C449	Not Used		
R553	ERD16TJ683 ERD16TJ823	68k	1 1	C450	ECKD1H103MD	0.01	1
R554	ERD16TJ224	82k 220k	1	C451	ECKD1H223MD	0.022	1
R555	ERD16TJ474	470k		C452	Not Used		
R556	ERD16TJ563	56k		C453- C456	ECKD1H223MD	0.022	4
R557	ERD16TJ184	180k	1 1	C456	Not Used		
R558	ERD16TJ823	82k		C458-	ECKD1H223MD	0.022	7
R559	ERD16TJ683	68k		C464	LONDTHEZOND	0.022	'
R560	ERD16TJ823	82k	1	C465	ECEA1CSS102	1000	1 1
R561	ERD16TJ224	220k	1	C466-	Not Used		'
R562	ERD16TJ823	82k	1	C469			
R563	ERD16TJ474	470k	1	C470	ECKD1H102KB	0.001	1 1
R564	ERD16TJ184	180k	1	C471	ECKD1H102KB	0.001	1
R565 R566-	ERD16TJ563	56k	1				1
R569	Not Used						
R570	ERD16TJ102	1k		11.	DODE COOR	(OTHERS)	
R571	ERD16TJ102	1k	1 1		PQDF996Z	Shaft	2
R572-	ERD16TJ104	100k	3	2 CN3	PQUB11Z PQJP45S30Z	Plastic Parts, Latch	2
R574			"	CN4	PQJP90S30Z	Connector, 45P Connector, 90P	
R575	ERD16TJ332	3.3k	1 1		1 001 903302	Connector, 90P	'
	ERD16TJ102	1k	1				
R577-	Not Used					LC (1,2) BOARD PARTS	
R583			1			,	
R584	ERD16TJ563	56k	1	PCB4	KX-T123270	LC P.C. Board Ass'y (NLA)	2
	Not Used	1			1	(Supply by business route)	
R586	ERD16TJ183	18k	1				1
R587 R588	Not Used ERD16TJ103	104				(ICs)	
R589	ERD16TJ103	10k 10k	1	IC300	PQVI671152F	IC	1
1009	EUD 10 10 100	IOK	1	IC301	PQVIHD7LS08P	IC	1
		(CAPACITORS)		IC302	PQVIHD7LS08P	IC	1 1
C400	Not Used	TONI NORIONS)		IC303 IC304	PQVIHD7L640P PQVIHD7LS04P	IC IC	1 !
C401	Not Used			IC304	PQVIHD7L304P	IC IC	
C402	ECEA1EU470	47	S 1		TO SETTING LEATHE		'
C403	ECEA1EU470	47	S 1				
	ECEA1HU220	22	S 1			(TRANSISTORS)	1
i i	ECEA1HU220	22	S 1	Q300A-	2SA937	Transistor (Si)	8
	ECEA1HN2R2S	2.2	1	Q300H		ζ-,	
	ECEA1EU101	100	S 1	Q301A-	2SB909M	Transistor (Si) S	8
	Not Used		1	Q301H			
	ECQM1H222JV	0.0022	1	Q302A-	2SD1225M	Transistor (Si) S	8
	ECKD1H223MD	0.022	1	Q302H		1	1
	Not Used Not Used						
U+12	1401 0360			<u> </u>			1

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Value, Part Name and Description	Pcs
	2SC2021	Transistor (Si)	24			(COMPONENT COMBINATIONS)	
Q303H,				Z300	EXBP88472K	Resistor Array S	1
Q304A-				Z301	PQRS8B8102J	Resistor Array	1
Q304H,				Z302	EXBP84103K	Resistor Array S	1
Q305A-						·	
Q305H Q306A-	UN1122	TDonaistar (S)	,			(DIJOTO EL FOTDIO TRANSPILIOTRO)	
Q306H	ONT 122	TRansistor (Si)	8	PC	PQVIPC817K	(PHOTO ELECTRIC TRANSDUCERS) Photo Coupler	.
Q307A-	DTC124EA	TRansistor (Si)	8	300A-	FUVIFUOT/K	Prioto Coupier	8
Q307H		Triancialar (al)		PC			
Q308A-	Not Used			300H			
Q308H		·					
Q309A-	Not Used						
Q309H						(CRYSTAL OSCILLATOR)	
Q310A-	Not Used		1	X300	PQVCX4000N8Z	Crystal Oscillator	1
Q310H	DTC104EA	Transistar (C)		1			
	DTC124EA DTC124EA	Transistor (Si) Transistor (Si)				TRANSCORUERO:	
	DTA124EA	Transistor (Si)	1 1	T300A-	ETA14Y85AY	(TRANSFORMERS) Transformer	8
1	DTA124EA	Transistor (Si)		T300A-	E1A14100A1	Transformer	٥
	D I I I I I I I I I I I I I I I I I I I	Transistor (OI)	'	T301A-	ETE13K38AY	Transformer	8
				T301H	ETETOROGAT	Transionie	ľ
		(DIODES)		1		1	
	MA4047	Diode (Si)	16				
D300H,]				(COILS)	
D301A-]		L300A-	PQLQZM2R2M	Choke Coil	16
D301H	100101	Di- 4- (0)		L300H,			
D302A- D302H,	155 [3]	Diode (Si)	8	L301A-			
	Not Used			L301H,			
D303H,	1101 0360		ŀ	1			
D304A-			ŀ	1		į	
D304H			ŀ	1		(RELAYS)	
D305A-	1SS131	Diode (Si)	8	RLY	PQSL41A	, , , , , , , , , , , , , , , , , , , ,	8
D305H				30A-		-	
	Not Used			RLY			
D306H	141 toro	P. J. 1015	_	30H			
D307A- D307H	MA4056	Diode (Si)	8		PQSL49Z	<u>^</u>	1
D307H D308A-	199121	Diode (Si)	43	KLY31B	PQSL49Z	1	1
D308H,	100101	Diode (Si)	43				
D309A-						(RESISTORS)	
D309H,				R300A-	ERD16TJ330	33	8
D310A-				R300H			
D310H,		·	:	R301A-	ERD16TJ220	22	8
D311A-				R301H			
D311H,		·		R302A-	•	6.8k	16
D312A- D312H				R302H,			
D312H				R303A- R303H			
D313,				R303H	ERD16TJ220	22	8
D314B				R304H	LND1010220	22	°
				R305A-	ERD16TJ330	33	8
		<u>'</u>		R305H			l
		(VARISTORS)		R306A-	PQRD2TJ102	1k	8
	ERZC03DK241	Varistor	18	R306H			1
30A-				R307A-	ERD16TJ153	15k	8
ZNR				R307H		1.0] · _
30H, ZNR				R308A-	ERD16TJ123	12k	8
2NH 31A-				R308H R309A-	ERD16TJ101	100	8
ZNR		,		R309A-	FUDIOIOIOI	100	l °
31H,				R310A-	ERD16TJ473	47k	8
ZNR32,				R310H		•]
ZNR33				R311A-	ERD16TJ121	120	16
		·		R311H,			
				R312A-		1	Ī
_{D1.7}	DODDA DODOLA	(THERMISTORS)		R312H	EDD44T 1000		l _
PHT	PQRPAR8R2M	Thermistor	8	R313A-	ERD16TJ222	2.2k	8
30A- PHT				R313H	EDD16T 1991	220	۵
30H				R314A-	ERD16TJ221	220	8
5511					ERD16TJ472	4.7k	8
			1	R315H		···· \	
	'						
		į į					
				<u> </u>			L

Ref. No.	Part No.	Value, Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
R316A- R316H,	ERD16TJ103	10k	9		CO-1 I	BOARD PARTS	
R317		·		PCB5	KX-T123280	CO-1 P.C. Board Ass'y (NLA)	1
R318	Not Used	4 71-				(Supply by business route)	
R319 R320	ERD16TJ472 Not Used	4.7k	1			(ICs)	
R321	ERD16TJ472	4.7k	1	IC200A-	PQVINJM4558D	ic	8
R322	Not Used	10.		IC200D,			
R323 R324	ERD16TJ103 Not Used	10k	1	IC201A- IC201D			
R325	Not Used			IC202A-	PQVINJ7301D	IC	4
R326 R327-	ERD16TJ105 ERD16TJ103	1M 10k	1 5	IC202D IC203	PQVIBU 3149	IC	1
R331	LND 1010103	TOK	"	IC203	PQVI672191F	ic ic	1.
				IC205	PQVIHD7L640P	IC	1
				IC206 IC207	PQVIHD7LS08P PQVIHD7LS04P	IC IC	1 1
							·
						(TRANSISTORS)	
			ŀ		2SC2590	Transistor (Si)	4
		(CAPACITORS)		Q200D Q201A-	Not Used		
C301A-	ECEA1HU3R3	3.3 S	8	Q201A	Not Osed		
C301H					DTC124EA	Transistor (Si)	12
C302A- C302H	ECEA1HU2R2	2.2	8	Q202D, Q203A-			
C303A-	ECEA1HU3R3	3.3 S	8	Q203A		·	
C303H	5051.484.050			Q204A-			
C304A- C304H	ECEA1HN4R7S	4.7	8	Q204D			
C305A-	ECEA1HU010	1	16				
C305H,						(DIODES)	
C306A- C306H				D201A-	MA4150	Diode (Si)	4
C307A-	ECKD1H103MD	0.01	16	D202A-	Not Used		
C307H,				D202D		1	
C308A- C308H				D203A- D203D	PQVDS1YB40F1	Diode (Si)	4
C309	ECCD1H221J	220P	1		MA4047	Diode (Si)	8
C310	ECEA1HU100	10	1	D204D,			
C311 C312	Not Used Not Used			D205A- D205D			
C313	ECKD1H223MD	0.022	1	D206A-	1SS131	Diode (Si)	4
C314 C315	Not Used Not Used	·		D206D	N-411		
C316	Not Used			D207A- D207D	Not Used		
C317	PQCBC1C103MY	0.01	1	D208A-	PQVDSV03YSW	Diode (Si) ⚠	4
C318 C319	ECEA1EU101 Not Used	100	1	D208D D209A-	1SS131	Diada (Ci)	46
C320	ECEA1EU470	47 S	1 1	D209A- D209D,	155131	Diode (Si)	16
C321	ECEA1EU101	100	1	D210A-			
C322 C323	ECEA1EU101 Not Used	100	1	D210D, D211A-			
C324	Not Used		i i	D211A- D211D,	1		
C325	ECCD1H220JC	22P	1	D212A-			
C326 C327A-	ECCD1H220JC ECKD1H471KB	22P 470P	1 16	D212D	Not Used		
C327H,	LONG II IT IND	17,01	10	D213A-	NOT OSEG		
C328A-				D214A-	1SS131	Diode (Si)	12
C328H				D214D, D215A-			
				D215A-			
		(OTUEDO)		D216A-			
1	PQDF996Z	(OTHERS) Shaft	2	D216D			
2	PQUB11Z	Plastic Parts, Latch	2				
CNA	PQJS50Q30Z	Socket, 50P	1		DOLUMBOS : THE	(PHOTO ELECTRIC TRANSDUCERS)	. 1
CNB	POJP8S30Z POJP45S30Z	Connector, 8P Connector, 45P	1 1	PC 200A-	PQVIPC817K	Photo Coupler 🛕	4
	, QUI 70000E		'	PC PC			
		-		200D	DOLUTE 5-5:		_
				PC 201A-	PQVITLP521	Photo Coupler	4
				PC PC			
				201D		•	
L		1	<u>J</u> .	J [I	1	

Ref. No.	Part No.	Value, Part Name & Descript	ion	Pcs
71.10	DOVEDOC ::::	(VARISTORS)		
ZNR 20 A -	PQVDDSS401M	Varistor		8
ZNR				*
20D,			ļ	
ZNR			1	
21A-			-	
ZNR			l	
21D				
ZNR	ERZC07DK820	Varistor	\triangle	4
22A-				
ZNR		1	ļ	
22D			1	
		(CERAMIC FILTER)	ŀ	
X201	PQVBFC3584A1	Ceramic Filter		1
		(RELAYS)		
RLY	PQSL34Z	Relay	\triangle	4
20A-				
RLY			1	
20D	DO01-007	Polov	_	4
RLY	PQSL63Z	Relay	Δ	4
21A-				
RLY 21D		1	ŀ	
RLY	PQSL41Z	Relay	<u> </u>	4
HLY 22A-	11 436412	Tielay	Δ	**
RLY				
22D		1]	
		ł	l	
		(TRANSFORMERS)		
T200A-	ETA14Y85AY	Transformer	. 🛕	4
T200D]		4	-
			l	
		(COILS)		
L200A-	PQLQZL101K	Choke Coil	Δ	8
L200D,		1	ب	
L202A-			1	,
L202D	ł	1	Į.	
	PQLQZK100K	Choke Coil	Λ	8
L201D,				
L203A-	1	1		
L203D				
L204A-	PQLQZK220K	Choke Coil	İ	8
L204D,		,	ļ	
L205A-	1	1		
L205D				
			İ	
		(RESISTORS)	ا ا	
	ERD16TJ151	150	Δ	4
R200D	EDD 0 17 1225		_	
R201A-	ERDS1TJ223	22k	Δ	4
R201D	EDDOOT		Δ	
R202A-	ERDS2TJ102	1k	(17	4
R202D	EDD46T 1506	50	<u> </u>	
	ERD16TJ5R6	5.6	Λ	4
R203D	EDD4cT loop	9 24	Δ	4
R204A-	ERD16TJ822	8.2k	Δ	4
R204D	ERD25TJ330	33	<u> </u>	4
R205A-	EUD5919990		Δ	7
R206A-	ERD16TJ473	47		4
R206D	21121010470	1"		7
R207A-	ERD16TJ472	4.7k		4
R207A-	CIND 1010472	1.77		
R208A-	ERD16TJ473	47	Δ	4
R208D	E1101010410	1"	411	'
R209A-	Not Used			
こいといめれて	Hot Oacu			
BSUOD	ERO16CKF1211	1.21k		8
R209D R210A-		['-''		ı ~
R210A-				
R210A- R210D,		•		
R210A-		*		

Ref. No.	Part No.	Value		Pcs
R212A-	ERO16CKF1003	100k		8
R212A-	1	TOOK	İ	J
R213A-				
R213D		1		
R214A-	Not Used			
R214D				
R215A-	ERO16CKF1003	100k		8
R215D,				
R216A-				
R216D				
R217A-	I I			
R217D	1			
R218A-		261k		4
R218D				
R219A-		1k	I	4
R219D	B	1, 24	1	
	ERO16CKF1211	1.21k		8
R220D				
R221A-				
R221D R222A				
R222D				
R223A		100k	ļ	16
R223D			l	
R224A	1		į	
R224D	1			
R225A				
R225D			*	
R226A	• •			
R226D				
R227A				
R227D			Ì	
R228A	ERO16CKF2613	261k		4
R228D				
R229A	- ERD16TJ391	390		4
R229D		1		
R230A		1.5k		4
R230D	·		ŀ	
R231A		`		
R231D	•	470		4
R232A	l .	470		4
R232D		1.2k		4
R233A R233D		1.25		7
R234A		1		
R234D	1	1		
R235A		470		4
R235D		1		
R236A		1.2k		4
R236D	•		ĺ	
R237A		1M		4
R237D				
R238A				
R238D		1		
R239A	- ERD16TJ102	1k	Δ	4
R239D				
R240	Not Used	1	,	
R241	Not Used	1		
R242	Not Used	1,		
R243	ERD16TJ472	4.7k		1
R244	Not Used	L.,		.4
R245A		1M		4
R245D		104		1
R246	ERD16TJ103	10k 22k		4
R247- R250	ERD16TJ223 Not Used	CCN	:	l "
R250	ERD16TJ101	100		1
R251	ERD16TJ105	1M		1
R252	. –	10k		6
R253E	•			l
R254	"			I
R255	Not Used			I
	Not Used	1		
	HVOLUSEO			
R256				
	Not Used ERD16TJ102	1k		1
R256 R257	Not Used	1k		1 ,

Ref. No.	Part No.	Value, Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
R261	ERD16TJ184	180k	1		CO-2 B	OARD PARTS	<u> </u>
				PCB6	KX-T123281	CO-2 P.C. Board Ass'y (NLA)	T
C200A-	ECQE1104KN	(CAPACITORS) 0.1	4		1000	(Supply by business route)	,
C200D C201A-	ECQE2474KS	0.47		10000	201/11/11/202	(ICs)	
C201D	EUQE24/4KS	0.47	4	IC200A- IC200B.		IC	4
C202A- C202D,	ECEA1HU220	22	8	IC201A-			
C202D,			1 1	IC201B IC202A	PQVINJ7301D	IC	1 .
C203D C204A-	E00/41/404/7		1 , 1	IC202B	PQVINJ7301D	IC	1
C204A	ECQV1H104JZ	0.1	4	IC203 IC204	PQVIBU3149 PQVI672191F	IC IC	1 1
C205A- C205D	ECEA1HU220	22 A	4	IC205	PQVIHD7L640P	IC	1
C206A-	ECKD1H102KB	0.001	4	IC206 IC207	PQVISN7LS08N PQVIHD7LS04P	IC IC	1 1
C206D C207A-	ECFD1E683MD	0.068					
C207D,	EOI DIE663MD	0.008	8			(TRANSISTORS)	
C208A- C208D				Q200A	2SC2590	Transistor (Si)	1
C209A-	ECCD1H560KC	56P	8	Q200B Q201A	2SC2590 Not Used	Transistor (Si)	1
C209D, C210A-				Q201B Q202A,	Not Used DTC124EA	Translater (Cit	
C210D				Q202B,	DICI24EA	Transistor (Si)	6
C211A- C211D	ECFD1E333MD	0.033	4	Q203A, Q203B,			
C212A-	Not Used			Q203B, Q204A,			
C212D C213A-	ECFD1E183MD	0.018	4	Q204B			
C213D							'
C214A- C214D	Not Used			D201A	MA4150	(DIODES) Diode (Si)	
C215A-	ECFD1E183MD	0.018	4	D201B	MA4150	Diode (Si) ♠ Diode (Si) ♠	
C215D C216	Not Used			D202A D202B	Not Used Not Used		
C217	ECKD1H223MD	0.022	1	D203A	PQVDS1YB40F1	Diode (Si) \triangle Diode (Si)	1
C218 C219	Not Used ECKD1H223MD	0.022	1	D203B D204A,	PQVDS1YB40F1 MA4047	Diode (Si)	1 4
C220	ECKD1H223MD	0.022	1	D204B,	WIDATOT?	Blode (OI)	"
C221 C222	ECKD1H223MD ECKD1H103MD	0.022		D205A, D205B			
C223	Not Used			D206A	1SS131	Diode (Si)	1
C224 C225A-	Not Used ECKDKC222KB	0.0022	4	D206B D207A	1SS131 Not Used	Diode (Si)	1
C225D C226	ECEA1EU101			D207B	Not Used		
C227	Not Used	100	1 1	D208A D208B	PQVDSV03YSW PQVDSV03YSW	Diode (Si) ⚠ Diode (Si) ⚠	1 1
C228 C229	ECEA1EU470 ECEA1EU470	47 S 47 S	1 1	D209A,	1SS131	Diode (Si)	8
C230	ECEATEU101	47 S	1	D209B, D210A,			
C231 C232	ECEA1CSS102 Not Used	1000	1	D210B			
C233-	Not Used			D211A, D211B,			
C237 C238A-	ECKD1H103MD	0.01		D212A, D212B			
C238D			4	D213A	Not Used		
C239	ECEA1HU100	10	1 1	D213B D214A,	Not Used 1SS131	Diode (Si)	6
-				D214B,	133131	Diode (3i)	0
		(OTHERS)		D215A, D215B,			
1	PQDF996Z	Shaft	2	D216A,			
2 CNB	PQUB11Z PQJP8S30Z	Plastic Parts, Latch Connector, 8P	2	D216B			
CNC	PQJP45S30Z	Connectro, 45P	1				
MJ1-4	PQJJ1TA11Z	Jack <u></u> ₫	4	X201	PQVBFC3584A1	(CERAMIC FILTER) Ceramic Filter	1
					. 4.5. 0000771	- John Hall	'
					E .	(PHOTO ELECTRIC TRANSDUCERS)	
					PQVIPC817K PQVIPC817K		1
				PC201A	PQVILP521	Photo Coupler Photo Coupler Photo Coupler Photo Coupler Photo Coupler	1 1
				PC201B	PQVILP521	Photo Coupler	1
		<u> </u>		L	I		L

Ref. No.	Part No.	Value, Part Name & Description	n	Pcs	Ref. No.	Part No.	Value	Pcs
ZNR20B		(VARISTORS) Varistor	⚠	4	R220A, R220B, R221A,	ERO16CKF1211	1.21k	4
ZNR21A					R221B			
ZNR21B		l.,	A		R222A	Not Used		
	ERZC07DK820 ERZC07DK820	Varistor Varistor	\triangle	1	R222B	Not Used	1001	_
21111220	LINZOO7DROZO	Valistor	2:5	1	R223A, R223B,	ERO16CKF1003	100k	8
		((RELAYS)		'	R224A,			
	PQSL34Z	Relay	Λ	1	R224B,			Ì
	PQSL34Z	Relay	Ϋ́	1	R225A,			
	PQSL63Z PQSL63Z	Relay Relay	4	1	R225B,			
	PQSL41Z	Relay	<u>∠1</u> \	1 1	R226A, R226B			
	PQSL41Z	Relay			B B	Not Used		
		<u> </u>	2:7	Ì	R227B	Not Used	· ·	
T0004	FT 1 4 () (0 F 1) 4	(TRANSFORMERS)				ERO16CKF2613	261k	1
T200A T200B	ETA14Y85AY ETA14Y85AY	Transformer Transformer	$\stackrel{lack}{\mathbb{A}}$	1		ERO16CKF2613	261k	1
12006	ETAT4100A1	Transformer	-213	1	t t	ERD16TJ391 ERD16TJ391	390 390	1 !
		(COILS)				ERD16TJ152	1.5k	1
L200A,	PQLQZL101K	Choke Coil	Λ	4	R230B	ERD16TJ152	1.5k	1
L200B,						Not Used		
L202A, L202B						Not Used	1	
L202B	PQLQZK100K	Choke Coil	Â		R232A	ERD16TJ471	470	1
L201B,	Palaznion	Choke Coll	777	4	R232B R233A	ERD16TJ471 ERD16TJ122	470 1.2k	1 1
L203A,					R233B	ERD16TJ122	1.2k	'
L203B					R234A	Not Used	T.E.N	
L204A,	PQLQZK220K	Choke Coil		4	R234B	Not Used		
L204B,					R235A	ERD16TJ471	470	1
L205A, L205B	ļ				R235B	ERD16TJ471	470	1
LZUSB		İ			R236A	ERD16TJ122	1.2k	1 1
		(RESISTORS)			R236B R237A	ERD16TJ122 ERD16TJ105	1.2k 1M	
R200A	ERD16TJ151	150	Λ	1	R237B	ERD16TJ105	1M	
	ERD16TJ151	150	Δ	1	R239A	ERD16TJ102	_	1
	ERDS1TJ223	22k		1	R239B	ERD16TJ102	1k	1 1
	ERDS1TJ223 ERDS2TJ102	22k 1k	Ÿ	1	R240A	Not Used		
	ERDS2TJ102 ERDS2TJ102	1k	4	1	R240B R241A	Not Used Not Used		
	ERD16TJ5R6	5.6	☆		R241B	Not Used		
R203B	ERD16TJ5R6	5.6	 	1	R242A	Not Used		
	ERD16TJ822	8.2k	<u> </u>	1	R242B	Not Used		
	ERD16TJ822	8.2k	$\overrightarrow{\mathbb{A}}$	1	R243	ERD16TJ472	4.7k	1
	ERD25TJ330 ERD25TJ330	33 33	$\overline{\Lambda}$	1	R244	Not Used		
	ERD16TJ473	47k	Λ	¦	R245A R245B	ERD16TJ105 ERD16TJ105	1M 1M	1 1
	ERD16TJ473	47k		1	R246	ERD16TJ103	10k	1 1
	ERD16TJ472	4.7k		1	R247,	ERD16TJ223	22k	4
	ERD16TJ472	4.7k		1	R248,			İ
	ERD16TJ473	47k		1	R249,			
	ERD16TJ473 Not Used	47k	i	1	R250	EDD4 OT 1404	400	
	Not Used				R251 R252	ERD16TJ101 ERD16TJ105	100 1M	1 1
	ERO16CKF1211	1.21k		4	R253A	ERD16TJ103	10k	4
R210B,			·		R253B,			
R211A,					R254,			
R211B	EDO400VE4000	1001	1		R255	m com , 1		
R212A, R212B,	ERO16CKF1003	100k		4	R256	ERD16TJ223	22k	1 1
R213A,					R257 R258	ERD16TJ223 ERD16TJ102	22k 1k	1 1
R213B,					R259	Not Used	 '''	'
	Not Used		.]		R260	ERD25TJ470	47	1
	Not Used	1]	R261	ERD16TJ184	180k	1
	ERO16CKF1003	100k		4				
R215B, R216A,							(CADACITORS)	
R216B				1	C200A	ECQE1104KN	(CAPACITORS)	
1	Not Used		1	•	C200A	ECQE1104KN	ر حب	1
	Not Used		- 1			ECQE2474KS	0.1 0.47	
	ERO16CKF2613	261k	- [1	C201B	ECQE2474KS	0.47	1
	ERO16CKF2613	261k]	1	9 '	ECEA1HU220	22	4
	ERD16TJ102	1k		1	C202B,			
R219B	ERD16TJ102	1k	j	1	C203A, C203B]
						ECQV1H104JZ	0.1	,
	· · · · · · · · · · · · · · · · · · ·	1	1		OZUAN	2004 1111040Z	V 1	L

Ref. No.	Part No.	Value, Part Name & Descripti	on	Pcs	Ref. No.	Part No.	Value, Part Name & Description	Pcs
C204B	ECQV1H104JZ	0.1		1			LAVA DISTORY	
C205A	ECEA1HU220	22	A		ZNIDEO	DOVODOGAGAA	(VARISTOR)	
C205B	ECEA1HU220	22	$\stackrel{oldsymbol{\Lambda}}{oldsymbol{\Lambda}}$	1 1	ZNR50	PQVDDSS401M	Varistor	1
C206A	ECKD1H102KB		Δ <u>Σ</u>	1		*		
C206B	ECKD1H102KB	0.001	1	1				
		0.001		1			(RESISTORS)	
	ECFD1E683MD	0.068		4	R50	ERD16TJ823	82k	1
C207B,					R51	ERD16TJ103	10k	1
C208A,					R52	PQRD1VJ1R0	1	1
C208B					R53	ERDS1TJ181	180	1 1
C209A,	ECCD1H560KC	56P		4	R54,55	ERDS1TJ151	150	2
C209B,		·			R56	ERDS1TJ181	180	-
C210A,]				R57	ERD16TJ103	10k] ; [
C210B					R58	PQRD1VJ1R0	1	
C211A	ECFD1E333MD	0.033		,	R59	ERD16TJ103	10k	
C211B	ECFD1E333MD	0.033			R60			1 1
C212A	Not Used	0.555			R61	ERD16TJ104	100k]]
C212B	Not Used					ERDS1TJ101	100	1 1
C213A	ECFD1E183MD	0.018			R62	ERD16TJ562	5.6k	1 1
C213B	ECFD1E183MD]]	R63	ERD16TJ822	8.2k	1 1
		0.018		1]	R64	ERD16TJ272	2.7k	1
C214A	Not Used							
C214B	Not Used	1						
C215A	ECFD1E183MD	0.018		1			(CAPACITORS)	1
C215B	ECFD1E183MD	0.018		1	C50	ECET35S153SW	15000	1 1
C216	Not Used	ĺ			C51	Not Used		
C217	ECKD1H223MD	0.022		1	C52	EECW0HS105Z	1 8	1 1
C218	Not Used	1			C53	ECEA1AU222	2200	
C219,	ECKD1H223MD	0.022		3	C54	ECKD1H102KB	0.01	
C220,	:			_	C55	ECEA1VU101	100	
C221								'
C222	ECKD1H103MD	0.01		1				
C223	Not Used			. '			(OTHERS)	
C224	Not Used				CN17	PQJP5D30Z	1 '	
C225A	ECKDKC222KB	0.0022					Connector, 5P]
C225B	ECKDKC222KB	0.0022	$\stackrel{\triangle}{\mathbb{A}}$		CN18	PQJP6D30Z	Connector, 6P	1
•	ECEA1EU101		ΔΔ.]]	CN19	PQJP10D30Z	Connector, 10P	1 1
C227	Not Used	100		7	CN50	PQJP8D30Z	Connector,8P	1 1
1		1.7			CN51	PQJP4D30Z	Connector, 4P	1
C228,	ECEA1EU470	47	S	2		ļ		
C229	FOEAGELIAN	1			1			
C230	ECEA1EU101	100		1	İ			
C231	ECEA1CSS102	1000		1	ı			
C232-	Not Used				İ			
C237				1			POWER UNIT PARTS	^
C238A	ECKD1H103MD	0.01		1			All	Δ
C238B	ECKD1H103MD	0.01		1	PCB8	PQLP005Z	Power Unit (NLA)	1
C239	ECEA1HU100	10		1			,	, i
C240A	ECKDKC222KB	0.0022		1				
C240B	ECKDKC222KB	0.0022		1		ļ	(ICs)	
1		·	1		IC101	PQVIHA16664	IC	1
					IC102	PQVIMB3761M	lic	
		(OTHERS)	j		IC201	PQVIL5431	ic]
1	PQDF996Z	Shaft	1	2	IC202,			
2	PQHR9200Z	Spacer		2		PQVIIR3M02	IC .	3
3	PQUB11Z	Latch		_	IC203,			
CNB	PQJP8S30Z		ł	2	IC204	4110		[
		Connector, 8P	l]	IC205	AN6562	ic s	3
CNC	PQJP45S30Z	Connector, 45P		1	IC206	PQVIL5431	IC	1
MJ1,2	PQJJ1TA11Z	Jack, Telephone	Δ	2				
		<u></u>						
	POWER BOA	HDPARIS	·				(TRANSISTORS)	ļ ĺ
					Q101	2SK800	Transistor (Si)	[1]
PCB7	PQWP7T123210	Power P.C. Board Ass'y (NLA)		1	Q102	2SA1015	Transistor (Si)	1
				[Q103	2SA1015	Transistor (Si)	1
			- 1	- 1	Q104	2SC1815	Transistor (Si)	
		(TRANSISTORS)	J	İ	Q105	2SC2021	Transistor (Si)	i
Q50	2SC2673	Transistor (Si)		1	Q201	2SA1015	Transistor (Si)	;
Q51	2SB1015	Transistor (Si)		i 1	Q202	2SA1019	Transistor (Si)	¦
Q52	2SA881	Transistor (Si)		1	Q203	2SC3568	Transistor (Si)	¦
Q53	2SD1406	Transistor (Si)	j			2SC2750		¦
	100	Transition (Oi)	- 1	' I	1 .		Transistor (Si)	
			J	ľ		2SB744	Transistor (Si)]]
		(DIODES)				2SC1815	Transistor (Si)	1
[050.54]	DOMDON/401 E	(DIODES)		_		2SA1020	Transistor (Si)	1 1
	PQVDS3V10LF	Diode (Si)	- 1	2		2SC3568	Transistor (Si)	1
D52,53,	155131	Diode (Si)		3		2SC1815	Transistor (Si)	1 1
D54	BOLID 5-17			1		DTC143EA	Transistor (Si)	1
	PQVDS3V10LF	Diode (Si)		2		DTC143EA	Transistor (Si)	1
	1SR35-200	Diode (Si)		2	Q212	2SC1815	Transistor (Si)	1
LED1-3	LN28RPL	LED	s	3	1 1		·	
			[

D10101 PCVDDSS880 D1066 S)	Ref. No.	Part No.	Part Name and Description	Pc	s	Ref. No.	Part No.	Value	Pcs
DIOSE POVIDIORES Diode (S)						1 1			1
Did PovDrinces Dode (Si)				1		R101	ERTD5FFL5R0P	Thermistor	1
Diole Component								(CARACITORS)	
DIOMO DIOM						C101	ECOLITA224MH		- 1
Diofs Diofs Diods ESS)						1			1 1
DIOTO POVIDITIESE Diode (S)									1
Didge DOVDPICAUSB Didge (S)			(-,				ECKDKC222KB	2200P	1
DOUGH DOUG			Diode (Si)	1					1
DOUBDITUSES DOUBLESS Doube (S)									1
D202				1					1
Didde Color Colo			· ·	1					1
D204			• •				2		_ ¦
D205		· ·							1
Dicate Sis Dic				1					1
D206				1				1	1
D209	D206	1SS92	` '	1					1
Dide (Si)				1					1
D211				1 1				10	1
D2112 POVDR015LSS Diode (Si) 1 C119 Not Used 3.2	1		1 ' '	1					
D213 POVDT1ES2 PQVDF10P04Q Diode (SI) Diode (SI) 1 C121 C121 CRORNC472MF 4700P A700P CRORNC472MF 4700P C122 C122 CRORNC472MF 4700P C122 C122 CRORNC472MF 4700P C122 C122 CRORNC472MF 4700P C122 C122 C122 C122 C122 C122 C122 C122 C122 C122 C122 C122 C122 C122]]					1
Date Date									1
PC101, PC101, PC101, PC101, PC201 PC102, PC201 PC102, PC201 PC102, PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC202 PC				;					1
PC101, POWITLP521 POWITLP521 Photo Coupler Photo Coupler PC201 PC	D2.10	T GFDT 701 04G	Blode (GI)	'			1	1	1
PC102			•	1					1
PC102 PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC202 PC201 PC202 PC203 PC203 PC203 PC203 PC203 PC203 PC203 PC203 PC204 PC204 PC204 PC205 PC20			(PHOTO ELECTRIC TRANSDUCERS)			C124	ECKDKC472MF	4700P	1
PC201 PC201 PC201 PC201 PC201 PC201 PC201 PC202 PC2	,	PQVITLP521	Photo Coupler	3	3.				
CCR201 PQVTAC12DSM									_
SCR201 PQVTAC12DSM Thyristor 1 C205 ECEA+IGG332S 3300 C204 ECEA+IGG01DSK 1 C205 ECEA+IGG332S 3300 C206 ECEA+IGG332S C206 ECEA+IGG01DSK 1 C207 ECEA+IGG01DSK 1 C207 ECEA+IGG01DSK 1 C208 ECEA+IGG01DSK 1 C209 ECCAHIGH01DSK 1 C209 ECCAHIGH01DSK 1 C209 ECCAHIGH01DSK 1 C209 ECCAHIGH01DSK 1 C209 ECCAHIGH01DSK 1 C209 ECCAHIGH01DSK 1 C209 ECCAHIGH01DSK 1 ECCAHIGH01DSK 1 ECCAHIGH01DSK 1 ECCAHIGH01DSK 1 ECCAHIGH01DSK 1 ECCAHIGH01DSK 1 ECCAHIGH01DSK 1 ECCAHIGH01DSK 1 ECCAHIGH01DSK 1 ECCAHIGH01DSK 1 ECCAHIGH01DSK 2	PC201								1
SCR201 PQVTAC12DSM Thyristor 1 C205 ECEA1HG310SK 1 C206 ECGA1HG312SK 3300 C206 ECGA1HG312SK 1 C207 ECEA1HG310SK 1 C208 ECEA1HG310SK 1 C208 ECEA1HG310SK 1 C208 ECGA1HG312SK C208 ECGA1HG310SK 1 C208 ECGA1HG310SK 1 C208 ECGA1HG310SK 1 C218 ECGA1HG310SK 1 C211 ECGA1HG310SK 1 C211 ECGA1HG310SK 1 C211 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG31SK C211 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG31SK C218 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG312SK C208 ECGA1HG31SK C208 ECGA								3	1 1
SCR201 PQVTAC12DSM Thyristor 1 C205 C206 ECGA1FG332S C206 ECGA1HG010SK 1 C207			(TUVDISTOD)					1 .	1
SA103 ERZC14DK271U Varister 1 C206 C206 C207 ECEA1HGA100 10	SCR201	POVTAC12DSM	1`	١,	. 1			a .	1
SA103 ERZC14DK271U	3011201	T QV TACTZDOW	1 111/113101	l '	' l		1	l .	1
SA103 ERZC14DK271U							1	1	1
C210 C20MH163JV 0.015 C211 ECQM1H163JV 0.001 C211 ECQM1H102JV 0.001 C211 ECQM1H102JV 0.001 C212 ECQM1H102JV 0.001 C213 ECQM1H102JV 0.001 C214 ECQM1H102JV 0.10 C215 ECQM1H102JV 0.10 C215 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C216 ECQM1H102JV 0.10 C217 ECQM1H102JV 0.10 C218 ECQM1H102JV 0.10 C218 ECQM1H102JV 0.10 C218 ECQM1H102JV 0.10 ECCM1H102JV 0.10 ECCM1H10			(VARISTOR)				1	10	1
Colls & Transformers Coll Colls Coll Colls Coll Colls Coll Colls Coll Colls Coll Colls Co	SA103	ERZC14DK271U	1 '	1		C209	ECQM1H473JV		1
L101									1
L101									1
L102		001 50000		١.				4	1
L103]]		1	B		
L201				'					
L202		8		1		1	B	1	1
L203				1			9		1
Component Combination Com				1		C218	ECEA1HG4R7SK	4.7	1
Component Combination Com	L204	PQLE9006Z	Choke Coil	1			1		1
Component Combination Combination Com		1		1			4		4
Component Combination Com				1 1					1
T101				1 :				·	1
T201									
VR101 EVM38GA00B54 Semi-Fixed, 50kΩ (B) S 1 C228 ECA1HGA100 10 0.047 0.04		ł czaraczania w documentaczani		'				1	1
VR101 EVM38GA00B54 EVM38GA00B54 Semi-Fixed, 50kΩ (B) S 1 C227 ECQM1H102JV 0.001	1201	1 41130012	DITE HANSIOTHE		'		1	110	1 1
VR101 EVM38GA00B54 (VARIABLE RESISTORS) C228 ECQM1H102JV 0.001 VR201 EVM38GA00B53 Semi-Fixed, 50kΩ (B) S 1 C230 ECGM1H104JV 0.1 VR202 EVM38GA00B13 Semi-Fixed, 1kΩ (B) S 1 C231 ECEA1EGA222 2200 VR203 PQN9002Z Semi-Fixed, 1kΩ (B) S 1 C232 ECEA1HGA100 10 VR204 PQN9001Z Semi-Fixed, 2kΩ (B) 1 C233 ECQE1474KF 0.47 CR119 PQVDMGC4R3R2 Component Combination 1 C35 ECQM1H103JV 0.01 CR120 PQVDMGC4R3R2 Component Combination 1 (RESISTORS) (RESISTORS)									1
VR101 EVM38GA00B54 Semi-Fixed, 50kΩ (B) S 1 C229 ECEA1EGA222 2200 VR201 EVM38GA00B53 Semi-Fixed, 5kΩ (B) S 1 C230 ECQM1H104JV 0.1 VR202 EVM38GA00B13 Semi-Fixed, 1kΩ (B) S 1 C231 ECEA1EGA222 2200 VR203 PQN9002Z Semi-Fixed, 1kΩ (B) 1 C232 ECEA1HGA100 10 VR204 PQN9001Z Semi-Fixed, 2kΩ (B) 1 C233 ECQE1474KF 0.47 CR119 PQVDMGC4R3R2 Component Combination 1 C0Mponent Combination 1 (RESISTORS)	:	1	(VARIABLE RESISTORS)	1	1	· ·			1
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